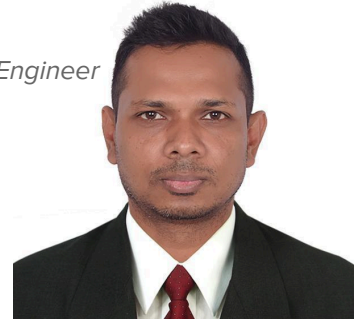

KHONDOKER MD MAMUNUR RASHID

Full Stack AI Engineer | Agentic AI & Automation Engineer | Lead Software Engineer
Data Engineer | Solution Architect

Whatsapp +97451235119
Mobile +97451235119
Email contact@charlicoder.com
Website <https://charlicoder.com>
LinkedIn <https://www.linkedin.com/in/charlicoder/>



CAREER SUMMARY

I have over **15 years of experience** as a **Python/JavaScript Developer**, with expertise in building scalable **full-stack web applications, data pipelines, agentic chatbots, automation systems, and AI-driven solutions**. Proven ability to design, deploy, and maintain intelligent software solutions alongside reliable network and server environments across diverse industries.

Strong backend expertise in **Python (Django, DRF, FastAPI, Celery)** and **Node.js**, with hands-on experience building microservices, RESTful APIs, and event-driven architectures. Skilled in frontend development using React and modern UI frameworks to deliver responsive, user-focused applications.

Highly proficient in AI engineering, including LLM-powered agents, RAG-based chatbots, semantic search, and workflow automation using **LangChain, LangGraph, Autogen, HuggingFace**, and **vector databases**. Solid background in data engineering, ETL automation, and analytics using PostgreSQL, MongoDB, Snowflake, and Pandas.

Additionally experienced as a Network Engineer and Administrator, managing servers (web, VoIP, database), network infrastructure, system security, monitoring, and technical support for on-site and remote users. Well-versed in DevOps and cloud technologies including **Docker, Kubernetes, AWS**, and CI/CD pipelines. Adept at delivering secure, scalable, and maintainable solutions in cross-functional environments.

Additionally, good knowledge in **blockchain development** with **Solidity, Truffle, HardHat, Hyperledger, Fabric, FireFly** and smart contract deployment for decentralised applications (dApps).

Adept at applying **Test-Driven Development (TDD)**, delivering high-quality, maintainable code. Demonstrated success in cross-functional teams, with strong communication and project management skills.

Tools & Technologies

- **Programming Languages:** Python, JavaScript, Node.js, Solidity, SQL
- **Backend Frameworks:** Django, FastAPI, ExpressJS, Fastify
- **Frontend & Mobile:** React, NextJS, ReactNative & Expo
- **AI Agent & Automation:** LangChain, LangGraph, Autogen, CrewAI, HuggingFace, TensorFlow, Scikit-learn, Sentence-Transformers, n8n
- **Databases:** PostgreSQL, MongoDB, Snowflake, Elasticsearch, Redis, RabbitMQ, Vector DBs (Qdrant, ChromaDB, FAISS), Celery, Redis
- **Network Engineer, DevOps & Cloud:** AWS (API Gateway, EC2, RDS, S3, ECS, SQS, SNS, CloudFormation), Docker, Kubernetes, Switch, Router, VoIP
- **Blockchain:** Solidity, HardHat, ether, web3, Hyperledger, Fabric

EXPERIENCE

Vraxa (Full time) - Senior Software Engineer (Full Stack)

July 2025 - Continue

Developed rental app: Developed a rental application similar to Airbnb, tailored for the Gulf region, incorporating innovative features to enhance user experience and compliance. Utilized a modern tech stack including Next.js, DRF, FastAPI, Express.js, AWS (SQS, SNS, API Gateway, RDS), and Docker for scalable and efficient deployment.

Developed a mobile app (spa center management system) using django (api backend), postgresql, react native, expo etc

Cloud Custom Solutions, Arizona (Remote, Part time) - Lead Software Engineer

Aug 2024 - Apr 2025

Modernized a mission-critical legacy system by upgrading from Python 3.6/Django 2 to Python 3.12/Django 5.1, ensuring full compatibility with modern frameworks, enhanced security standards, and significantly improved performance and maintainability.

Boosted system scalability and efficiency by replacing Google Tasks with a Celery + Redis architecture, enabling robust asynchronous processing and reliable background task execution across distributed services.

Designed and implemented an Agentic AI-powered chatbot for LinkFusion using **LangChain**, **LangGraph**, and **ChromaDB**, delivering a highly responsive **RAG-based conversational system**. Integrated **AWS SQS** for scalable messaging and **Twilio** for seamless multi-channel communication.

Currently leading the development of **AI-driven marketing automation tools** by orchestrating **LangChain**, **LangGraph**, and **n8n**, automating campaign workflows, enhancing customer engagement, and enabling end-to-end intelligent decision-making in real time.

Savvie International Corp, Canada (Remote, Contract) - Senior Software Engineer

Apr 2024 - Aug 2024

Optimized and automated ETL pipelines using **Snowflake Snowpark**, **AWS Batch**, **S3**, **ECS**, and **CloudFormation**, significantly improving data processing speed, system reliability, and end-to-end workflow automation.

Engineered a high-performance vector-based semantic search system using **FastAPI**, **Pinecone**, and **Sentence-Transformers**, resulting in dramatically improved product discovery, relevance, and user experience.

Developed robust machine learning models for product classification using **TensorFlow**, **Keras**, **Scikit-learn**, **NumPy**, and **Pandas**, achieving high accuracy in automated categorization and improving downstream analytics.

W3Engineers Ltd, Dhaka - Senior Software Engineer

Apr 2023 - Mar 2024 - 1 yr

Designed and optimized large-scale ETL pipelines using **Python**, **NumPy**, **Pandas**, **PyArrow**, and **PySpark**, enabling fast and reliable data ingestion, transformation, and storage. Integrated with **AWS services** including **API Gateway**, **RDS**, **EC2**, **ELB**, **S3**, **SQS**, **SNS**, and **ECS** to ensure scalable and fully automated data workflows.

Led full-cycle development of Django-based applications, building robust and high-performance APIs using **Django REST Framework (DRF)**. Implemented **Celery** with **Redis** for efficient background processing and real-time asynchronous task management.

Modernized complex legacy codebases, aligning them with modern software engineering practices to improve functionality, maintainability, and long-term codebase sustainability.

Engineered resilient cloud-native architectures using **Kubernetes**, **Docker**, and **AWS Cloud Infrastructure**, delivering seamless CI/CD pipelines, high availability, and optimized system performance for production-grade deployments.

Developed a machine learning-powered cost prediction system, integrating **Django**, **Scikit-learn**, **NumPy**, **Pandas**, **DRF**, **Celery**, **Redis**, and **LangChain**, providing accurate forecasting and actionable insights to support strategic business decisions.

EkkBaz, Dhaka - Senior Software Engineer (Lead) & DevOps

Apr 2022 - Dec 2022 - 9 mos

Contributed as a core developer at EkkBaz, a B2B marketplace startup revolutionizing small business operations through streamlined **inventory management**, **digital financing**, and **automated workflows**. Delivered scalable

solutions using **Python, Django (DRF), React, RabbitMQ**, and **AWS services** including **API Gateway, RDS, EC2, ELB**, and **S3**.

Led the migration of legacy APIs to a modern Python/Django REST framework, improving system scalability, performance, and maintainability. Introduced **automation tools** to enhance development workflows and reduce manual overhead.

Designed and implemented robust RESTful APIs, ensuring seamless integration between frontend and backend systems, with efficient server-side logic crafted in **Python** and **Node.js**.

Optimized data architecture and performance by integrating both **SQL (AWS RDS)** and **NoSQL databases**, enabling reliable handling of high-volume transactional and operational data.

Fostered cross-functional collaboration through tools like **Microsoft Teams** and **Planner**, contributing to agile planning, efficient communication, and delivery of high-quality software aligned with business goals.

Cloud Custom Solutions, Arizona (Remote, Full Time) - Full Stack Web Developer

Jan 2019 - Feb 2021 · 2 yrs 2 mos

Collaborated remotely with Project Manager Ben Fatola at Cloud Custom Solutions to design and deliver innovative, scalable web applications using **Python, Django, React, Elasticsearch, PostgreSQL, Redis, Celery, Twilio**, and **AWS Cloud Infrastructure**.

Procurement Solutions: Architected and developed a seamless B2B procurement system, enabling efficient supplier–buyer collaboration with a clean, intuitive user experience and streamlined transactional workflows.

Champion Platform: Engineered a high-performance matchmaking system, leveraging intelligent algorithms to optimize user pairing and engagement, driving platform growth and user satisfaction.

MLM Marketing Application: Built a robust multi-level marketing (MLM) platform, automating complex referral structures, performance tracking, and payout mechanisms to support scalable, referral-driven marketing strategies.

US Army Project: Contributed to a mission-critical **geospatial intelligence platform**, utilizing **Django** and **PostGIS** to process and visualize spatial data, enhancing analysis, decision-making, and operational readiness for defense use cases.

Demonstrated strong cross-functional collaboration and remote team leadership, delivering high-quality, production-ready solutions in a fully distributed team environment.

Scom.ca (Paul Kudla), Ontario, Canada (Remote, Full Time) - Full Stack Web Developer

May 2014 - Sep 2017 · 3 yrs 5 mos

Collaborated with Paul Kudla, a veteran systems analyst and IT consultant, to **design and develop robust web applications** for high-profile clients including **Premier Elevator, Volvo Trucks North America, and iMeter24**.

Delivered multiple custom business solutions for Premier Elevator and Volvo Trucks, addressing key operational areas such as **product and inventory management, invoicing, procurement and sales, and driver scheduling**. Utilized **Python, Django, PostgreSQL, Bootstrap, jQuery, and Angular** to deliver scalable, user-friendly web platforms.

Designed and implemented a stock and supply management system for **iMeter24**, streamlining the tracking and control of electric meter components and inventory.

Developed a real-time digital meter interface, enabling users to:

- **View live meter readings**
- **Control device states remotely**
- **Automate invoice generation based on usage data**

The solution was built using **Python, Django, PostgreSQL, Elasticsearch, and Git**, ensuring performance, reliability, and seamless data visualization.

Supreme Supports Pty Ltd, Dhaka - Full Stack Developer

Apr 2013 - Apr 2014 · 1 yr 1 mos

Developed complex features and implemented automated testing as part of routine development workflows, ensuring high code quality, reliability, and maintainability across multiple application modules.

Contributed to a mission-critical, location-based application for the US Army, where I played a key role in **resolving critical geospatial issues**. Utilized **PostGIS** to troubleshoot and rebuild a previously broken and incomplete system, significantly enhancing spatial data accuracy, performance, and operational integrity.

NewsCred Inc, Dhaka - Software Engineer

Jan 2012 - Mar 2013 · 1 yr 3 mos

Developed and enhanced CMS and control panel systems at **NewsCred** using **Python, Django, and PostgreSQL**, contributing to scalable and user-friendly content management solutions.

Implemented and maintained key application modules under the mentorship of senior developers, delivering high-quality, maintainable code that aligned with best practices and business requirements.

Championed the adoption of Behavior Driven Development (BDD) after conducting in-depth research and receiving team mentorship. Successfully integrated BDD into the development workflow, enhancing collaboration between developers, testers, and stakeholders.

Effectively utilized tools such as **Selenium**, **Lettuce**, and **Cucumber** to implement BDD practices, leading to improved test coverage, early bug detection, and more robust feature validation.

Kazi IT Center Ltd, Dhaka - *Network Administrator & Web Developer*

July 2010 - Dec 2011 · 1 yr 6 mos

Installed, configured, and troubleshooted various servers including web, VoIP, and database servers to ensure reliable system performance.

Managed network infrastructure, monitored system health, and resolved network and server-related issues.

Provided technical support to internal employees and remote clients, ensuring timely resolution of hardware, software, and connectivity problems.

I also developed inhouse web application using python/django

Onecall Solutions Limited, Dhaka - *Assistant Network Engineer*

May 2008 - Jun 2010 · 2 yr 2 mos

Provided timely and effective **technical support and troubleshooting** to network users, resolving issues to minimize downtime and enhance productivity.

Delivered **procedural guidance and training** to ensure proper use of network resources and adherence to IT policies.

Maintained strict **confidentiality and security** of sensitive information and network data, upholding organizational standards and compliance requirements.

EDUCATION

North South University, Bangladesh - *Masters of Science in Computer Science & Engineering*

Oct 2008 - May 2011

Masters of Science in Computer Science & Engineering. Thesis not done.

Shahjalal University of Science and Technology, Bangladesh - *Post Graduate Diploma In Software Engineering*

July 2006 - June 2007

One Year diploma course in software engineering.

Shahjalal University of Science and Technology, Bangladesh - *Training on CCNA*

Dec 2004 - Dec 2005

One Year Training on CCNA Certification. Study materials and LAB facility was sponsored by CISCO.

National University, Bangladesh - *Bachelor of Science (BSc)*

Jan 1999 - Dec 2004

BSc honors in Physics.

PERSONAL-INFO

| | |
|-------------------|---|
| NAME | KHONDOKER MD MAMUNUR RASHID |
| FATHER'S NAME | KHONDOKER MD MIZANUR RAHMAN |
| MOTHER'S NAME | MRS JAHANARA BEGUM |
| SPOUSE NAME | MRS SHILA |
| DATE OF BIRTH | 10-09-1980 |
| NATIONALITY | BANGLADESHI |
| PERMANENT ADDRESS | Girish Nagor, Dowara Bazar, Sunamganj, Bangladesh |
| PRESENT ADDRESS | AL Jadeeda, AL DOHA, QATAR |

RECOMMENDATIONS

[\(check my linkedin profile for validation\)](#)

Ron Dyck - *CTO, Entrepreneur, Savvie International Corp*

- Mamunur Rashid was a great asset to our team. When thrown some very challenging problems, I found him to be very resourceful and hard working. I would highly recommend him.

Iraj Islam - *Co-founder and CTO of NewsCred.com*

- Mamunur Rashid is an intelligent, hard working and driven software engineer. During his time at NewsCred he was both a Software Engineer and a SQA Engineer. He contributed to feature development of various products and also made sure quality was maintained. We are grateful for his time at NewsCred and wish him a bright future as a successful Software Engineer.