KHONDOKER MD MAMUNUR RASHID
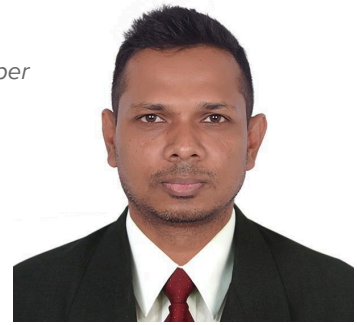
Full Stack Python Developer | AI Agent & Automation Engineer | Blockchain Developer

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

CAREER SUMMARY

Experienced Full Stack Developer with a strong focus on **Agentic AI systems**, **AI automation**, and **blockchain-based applications**. Proven track record in designing and delivering intelligent, scalable software solutions across diverse industries.

Possess deep backend expertise in **Python** (Django, DRF, FastAPI, Celery) and **Node.js (Express)**, with advanced proficiency in building **microservices**, **event-driven architectures**, and robust **RESTful APIs**. Skilled in frontend technologies including **React**, **Tailwind CSS**, and **Material Design** for crafting responsive and modern user interfaces.

Highly experienced in **AI engineering**, particularly in developing **LLM-powered agents**, **RAG-based chatbots**, and **semantic search systems** using tools like **LangChain**, **LangGraph**, **Autogen**, **n8n**, and **HuggingFace**. Strong command of **vector databases** such as Qdrant, ChromaDB, Pinecone, and FAISS.

Solid foundation in **data engineering**, with hands-on experience in **ETL automation**, **data pipelines**, and analytics using **Snowflake**, **PostgreSQL**, **MongoDB**, **Polars**, and **Pandas**. Proficient in **DevOps** practices with Docker, Kubernetes, AWS, and CI/CD pipelines.

Additionally, good knowledge in **blockchain development**, working with **Solidity**, **Truffle**, **HardHat**, 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, Solidity, SQL

- **Backend Frameworks:** Django, Django REST Framework, FastAPI, Node.js (Express), Crawl4AI, Langgraph, Autogen, CrewAI

- **Frontend:** React, NextJS

- **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, Pinecone, FAISS)

- **DevOps & Cloud:** AWS (API Gateway, EC2, RDS, S3, ECS, SQS, SNS, CloudFormation), Docker, Kubernetes, CI/CD pipelines

- **Testing & Automation:** Celery, Redis, Selenium, N8N, Lettuce, Cucumber, Pytest

- **Blockchain:** Solidity, Truffle, Ganache, HardHat

- **Project Management & Collaboration:** Microsoft Teams, Planner

EXPERIENCE

Vraxa (Full time) - *Senior Full Stack Developer*

July 2025 - Continue

Developing rental app: Developing 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, FastAPI, AWS (SQS, SNS, API Gateway, RDS), and Docker for scalable and efficient deployment.

Cloud Custom Solutions, Arizona (Remote, Part time) - *Full Stack Python Developer*

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.

Designed and deployed scalable, cloud-native architectures on **AWS**, utilizing **API Gateway**, **RDS**, **EC2**, **ELB**, **S3**, **SQS**, **SNS**, and **ECS (Fargate)**. Ensured high availability and task orchestration using **Celery** and **Redis**, supporting real-time and asynchronous workloads with efficiency.

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 - *Python Django Developer*
Sep 2013 - Apr 2014 · 8 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.

PubliSeek, Dubai (Remote, Full Time) - *Software Engineer*
Apr 2013 - Aug 2013 · 5 mos

Developed a robust and scalable web application for Publiseek using **Django**, with a strong focus on delivering a seamless user experience and efficient data management.

Designed and implemented custom features tailored to business needs, **integrated third-party services and APIs**, and applied best practices to ensure **application security, performance, and scalability**.

This solution significantly **streamlined operational workflows** and **enhanced Publiseek's digital presence**, contributing to improved user engagement and business efficiency.

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 - *Web Developer*

Sep 2011 - Dec 2011 · 4 mos

Contributed to the development and maintenance of client websites for **atoztasks.com**, delivering reliable and user-friendly web solutions tailored to business needs.

Provided **effective troubleshooting and issue resolution** across web applications, ensuring optimal performance, stability, and user satisfaction.

Worked with a technology stack including **Python**, **Django**, **Bootstrap**, and **PostgreSQL**, applying best practices to build scalable and maintainable web platforms.

Onecall Solutions Limited, Dhaka - *Assistant Network Engineer*

May 2008 - Jun 2009 · 1 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

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.

CERTIFICATIONS

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.