

## KHONDOKER MD MAMUNUR RASHID

*Sr. Software Engineer | Full Stack Developer | Data Engineer*

Savvie International Corp, Canada



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## CAREER SUMMARY

**I have more than 10 years of experience working as a "Software Developer (Python/JavaScript Stack)".**

With over a decade of experience, I specialize in building scalable, high-performance applications and data pipelines. My expertise includes developing ETL processes with **AWS (S3, Glue, ECS, Batch, Fargate, SAM-CLI, CloudFormation)**, **Snowflake**, and **Snowpark**; full-stack development using **Python, Django, Django Rest Framework, Node.js** and **React**; and develop & deploying machine learning models using **scikit-learn, tensorflow, matplotlib** etc. I have a strong background in **cloud services** and **DevOps** practices, including **Docker, Kubernetes, SAM cli** and **AWS CloudFormation**. I'm adept at using **PostgreSQL, Elasticsearch, PySpark**, and **NumPy/Pandas** for data management and analysis. My work enhances business efficiency and customer satisfaction in both collaborative and remote environments.

### Skills Developed:

- Web application design, development, and deployment
- Design, develop and deploy RESTful APIs that operated as microservices
- ETL pipeline design and automation
- Vector search, RAG, Chatbot implementation
- Machine learning model development and deployment
- Cross-functional collaboration and problem-solving

**I do also have good knowledge about following tools & technologies:**

- ❖ **Blockchain development** (Solidity, Truffle, Ganache, HardHat, Hyperledger, Fabrik)
- ❖ **Web Pentesting Tools** (NMAP, SQLMap, Burp Suite, Metasploit, Skipfish etc)

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## EXPERIENCE

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### **Savvie International Corp, Canada** - *Senior Software Engineer (Part time)*

Apr 2024 - continue

- ETL Data Pipeline Development: Designed and implemented ETL data pipelines utilizing Snowpark (Snowflake), AWS Batch, S3, SQS, ECR, ECS, Fargate, SAM cli and CloudFormation.
- Vector (Semantic) Search Implementation: Developed and integrated vector (semantic) search capabilities for e-commerce products utilizing tools like pinecone, fastapi, pandas, numpy, sentence\_transformers, etc
- Machine Learning Model Development: Created and deployed machine learning models for product categorization based on image and title data. Tools used: scikit-learn, tensorflow, keras, sentence-transformers, pandas, numpy etc

### **W3Engineers Ltd, Dhaka** - *Senior Software Engineer*

Apr 2023 - Mar 2024 - 1 yr

- Architected and executed data pipelines to streamline data extraction, transformation, and loading (ETL) processes. Leveraged Python libraries including Numpy, Pandas, PyArrow, PySpark, and integrated AWS services such as SQS, Glue, S3, RDS, and DynamoDB for optimal data management.
- Led end-to-end development of Django-based projects, adeptly managing technical challenges to enhance overall project performance and elevate customer satisfaction ratings.
- Updated old code bases to modern development standards, improving functionality.
- Promoted experience with Kubernetes, Docker and Amazon Web Services.
- Developed robust, scalable, modular and API-centric infrastructures.

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

Apr 2021 - Dec 2022 - 1 yr 9 mon

- EkkBaz is a startup company empowering small businesses with inventories, financing supports and to operate their business digitally using EkkBaz app (A Marketplace for B2B platform)
- Initiated efforts to migrate a couple of legacy API services to Python / Django (DRF) stack and also introduced a few automation tools to enhance workflow.
- Worked closely with development team members to identify and remove software bugs. Tools used for team collaboration were MS Teams and Planner.
- Implemented server-side logic using Python, Node.js, and integrated with databases (SQL or NoSQL) to handle data storage and retrieval efficiently.
- Designed and developed RESTful APIs, enabling smooth communication between front-end and back-end systems.

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### **Cloud Custom Solutions, Gilbert, Arizona ( Remote ) - Full Stack Web Developer**

Jan 2018 - Feb 2020 · 2 yrs 2 mos

- I worked remotely with the project manager (Ben Fatola, USA) from Cloud Custom Solutions.
- I developed two applications for Ben titled "Procurement Solutions" which was an online collaboration platform for supplier and buyer and another was a matchmaking site titled "Champion". I developed an app to manage the MLM marketing system using referrals. I worked on a project developed for the US army using django and PostGIS.
- I Managed both back-end and front-end aspects of the development process.
- Coordinated system installations, testing and code corrections.
- Dev stack used for these apps were Python Django, Django Rest Framework, PostgreSQL, PostGIS, Celery, Twilio, Mailchimp, AWS EC2, ElasticSearch, Docker, Bash Script, Javascript, jQuery, React etc.

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

May 2014 - Sep 2017 · 3 yrs 5 mos

- Worked closely with "Paul Kudla" (owner of scom.ca) who was a very experienced systems analyst and IT consultant of many multinational companies like Premier Elevator, Volvo Trucks North America, Planet Wide Hosting, iMeter24 etc from Canada.
- My job was to understand the limitations of current business processes and user requirements collected by Paul from these companies. Paul then explained to me over Skype meeting that my job was to design & develop web applications.
- I developed many web applications for Premier Elevator & Volvo Trucks North America for their in-house management which includes Product Management, Invoice Management, Procurement and Supply Chain Management, Sales and Order Management, Inventory Management, Contact Management, Drivers Schedule Management etc. I used Python, Django, PostgreSQL, Bootstrap, jQuery, Angular, Elasticsearch, Git etc.
- For iMeter24 an electric meter manufacturing company from Canada I developed a row Items stock & supply management system to manage row items, stock, price, supplier contact etc where Paul Kudla was ac as an IT Consultant. Tools used to develop this app are Python, Django, PostgreSQL, Bootstrap, Elasticsearch, Git etc.
- For iMeter24 I also developed a web application using Django to interface digital electric meters in a building to show meter readings, switching state(On/Off), control on/off and also generate invoice/bill at the end of month. Tools used are Python, Django, PostgreSQL, Bootstrap, jQuery, Angular, Elasticsearch, Git etc.

### **Supreme Supports Pty Ltd, Dhaka - Python Django Developer**

Sep 2013 - Apr 2014 · 8 mos

- Performed automated testing tasks and developed complex features routinely.
- Worked to solve complex problems and fix issues of a broken incomplete project for the US Army. It was a location based application using PostGIS.
- I also developed an inhouse django application for inventory and employee management.

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### **PubliSeek, Dubai** - *Software Engineer*

Apr 2013 - Aug 2013 · 5 mos

- For Publiseek, I developed a robust web application using Django, focusing on creating a seamless user experience and efficient data management. The project involved building custom features, integrating third-party services, and ensuring the application was scalable and secure. This work allowed Publiseek to streamline their operations and enhance their digital presence.

### **NewsCred Inc, Dhaka** - *Software Engineer*

Jan 2012 - Mar 2013 · 1 yr 3 mos

- Started working as a member of a web developer team to develop various products like CMS, control panel etc for NewsCred. I worked as a Backend developer using tools like Python, Django & PostgreSQL.
- Implemented and updated application modules under the direction of Senior Software Developers.
- Introduced Behavior Driven Development (BDD) for the project after doing some research and with the guidance of seniors. Tools used for BDD Selenium, Lettuce, Cucumber etc.

### **Kazi IT Center Ltd, Dhaka** - *Web Developer*

Sep 2011 - Dec 2011 · 4 mos

- Help to develop web sites for the clients of atoztasks.com
- Provided effective troubleshooting and remediation for web applications.
- Tools used are Python, Django, Bootstrap, PostgreSQL etc.

### **Onecall Solutions Limited, Dhaka** - *Assistant Network Engineer*

May 2008 - Jun 2009 · 1 yr 2 mos

- Provided assistance to network users regarding troubleshooting and procedures.
- Worked to maintain the confidentiality of information and network data.

## **EDUCATION**

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### **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

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BSc honors in Physics.

## RECOMMENDATIONS

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**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.