

Mahimul Islam

Full Stack Engineer

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Links: LinkedIn | Portfolio | GitHub

Experience

Full Stack Software Engineer, Maeknit, Inc – Jamaica, NY Mar 2025 – Present

- **Sole software engineer** responsible for the full lifecycle of software development, working in two-week Agile sprints using **Jira** and **Slack** to collaborate directly with the CTO and CEO for planning and prioritization.
- **Designed and developed** 5+ custom **Odoo ERP modules** across CRM, Inventory, Sales, Project, Contacts, and Email to automate internal operations and align with garment industry needs.
- **Built and launched** the company's public-facing website using **React.js**, **Next.js**, **HTML**, **CSS**, delivering a fully responsive, branded digital experience.
- **Architected and implemented** a dynamic **financial modeling dashboard** tailored to fashion manufacturing workflows, integrating margin planning, machine capacity, and sensitivity analysis.
- Contributed to long-term **infrastructure planning**, including preparations for migration from **Odoo.sh** to **AWS (EC2, RDS)** to improve scalability and system responsiveness.
- **Developing an AI-powered chatbot** using **Python** and **NLP models** to support internal quoting, onboarding, and knowledgebase access.
- Daily responsibilities include 80% hands-on coding and 20% planning/testing across backend and frontend systems using **Python**, **OWL**, **JavaScript**, **React.js**, **XML**, and **PostgreSQL**.
- Technologies: **Python**, **OWL**, **JavaScript**, **XML**, **React.js**, **Next.js**, **HTML**, **CSS**, **PostgreSQL**, **Odoo.sh**, **AWS**, **Jira**, **Slack**

Full Stack Engineer, Genome Medical Inc – South San Francisco, CA Aug 2022 – Jan 2025

- **Architected and deployed** scalable **cloud-based** web and backend systems using **AWS (EC2, S3, RDS)** and **Docker**, leveraging open-source technologies like **Flask**, **Node.js**, and **PostgreSQL**. Ensured **100% on-time delivery** of key product releases while maintaining **high availability** and **operational support** for mission-critical healthcare applications.
- **Led the design and implementation** of a seamless **patient migration solution** between **Genome Medical** and **GeneMatters**, integrating **secure API development (Node.js, Python)** with a **React.js + Redux-powered one-click UI**. This solution **automated large-scale data transfers**, eliminating **manual intervention** and ensuring **100% secure migration** of critical patient records.
- **Collaborated on enhancing and maintaining** a **Vue.js-based Admin Portal**, troubleshooting issues, resolving tickets, and optimizing workflows to help administrators efficiently manage **partner and provider information**, **streamline onboarding**, and improve operational efficiency.
- **Strengthened** platform security by proactively identifying and resolving over 50 critical vulnerabilities using tools like **Aikido & Sentry**, a 30% improvement in system resilience and a reduction in reported security incidents.
- Designed, implemented, and maintained **CI/CD pipelines** using tools such as **GitLab CI/CD** and **Bitbucket pipelines**, automating the build, test, and deployment processes, resulting in a 20% acceleration in release cycles and ensuring consistent delivery of high-quality software.
- **Collaborated cross-functionally** with senior engineers, product managers, and designers to develop user-centric **React.js** and **Vue.js** features, contributing to the successful launch of initiatives that **streamlined clinical workflows** and **improved operational efficiency**.
- **Built and executed automated testing frameworks** (unit, integration, and system testing) with **Mocha**, **Jest**, **Selenium**, and **Cypress**. This initiative resulted in a **40% reduction in production bugs**, **15% acceleration in release cycles**, and significantly reduced the need for **hotfixes**, enhancing overall system **stability**.
- **Played a key role in agile sprints**, contributing to **planning**, **refinement**, and **retrospectives** to enhance **team productivity**, utilizing **Jira** for sprint management and **Confluence** for documentation.

- Provided timely **production support**, resolving over **150 support tickets** within 6 months, ensuring continuous operational reliability and minimizing system downtime.
- Technologies: **React.js, Vue.js, TypeScript, JavaScript, Python, Flask, Node.js, Mocha, Jest, Selenium, Cypress, AWS, Docker, Postgres SQL, Redux**

Software Developer , Cardinal Selling Services, LLC – Huntingburg, IN Jul 2014 - Jan 2021

- Developed websites and web services using REST-based web services and tools including HTML, CSS, Bootstrap, JavaScript, and Django.
- Conducted user requirement analysis and designed the Entity Relationship Diagram (ERD).
- Conducted integration and unit testing using automated testing frameworks including Mocha, Jest, Selenium, and Cypress.
- Improved product scraping systems using Python and its libraries.
- Implemented automation to streamline manual processes, resulting in cost savings for the company.
- Provided support for email marketing initiatives.
- Used Linux / command line and modern software development practices (git, pull-requests, Jira) to advance software projects.
- Worked with relational database design, SQL, and Postgres SQL.
- Built high-scale APIs that operate on AWS, using tools including React.js, TypeScript, Node.js, and Docker.

Education

Georgia Institute of Technology, Master of Science in Computer Science Jan 2024 – Dec 2025

- Current GPA: 3.7/4.0
- **Specialization:** Interactive Intelligence

Ahsanullah University of Science & Tech, BS in Computer Science & Engineering Nov 2015 - Feb 2020

- GPA: 3.43/4.0

Publications

Hybrid Text Summarizer for Bangla Documents Nov 2020

Int. Journal of Computer Vision and Signal Processing (IJCVPSP), Vol 10, No. 1

- First Author.
- Topic: Natural Language Processing, Text Summarization & Machine Learning.

Certification

Python for Everybody (Specialization with 5 Individual courses) | University of Michigan 2020

Deep Learning (Specialization with 5 Individual courses) | DeepLearning.ai 2020

Deep Learning (Specialization with 5 Individual courses) | John Hopkins University 2020

Natural Language Processing with Classification and Vector Spaces | DeepLearning.ai 2020