Maaz Hashmi

Open Source Contributor — Full-Stack Developer

🌐 Website   ✉ mhashmi373@gmail.com   GitHub   🔗 LinkedIn   ☎ +1 (431) 338-6120

SKILLS

Languages: Python, Java, JavaScript/TypeScript, C, SQL, HTML, CSS
Frameworks: React (Native), Next.js, Node.js, Express.js, SpringBoot, MongoDB, PostgreSQL, MSSQL
Tools: Docker, Git, AWS, GitHub Actions, CI/CD, Android Studio, Maven, Jenkins, Jira

EDUCATION

University of Toronto - Honors Bachelor's of Science   Sep. 2020 – Jun. 2024

Major in Computer Science — *Specialization in Software Engineering Stream*   Toronto, ON

- **Teaching Assistant** – *CSCC09, CSCC01, CSCB07, MATA32, MATA33, MATA34, MATA36*
  Conducted weekly tutorial sessions with over **30** students covering concepts in **software engineering**, **object oriented programming** and **web development** using **Java**, **ReactJS**, **Node.js**, etc.
- **Awards:** University of Toronto Scholar, Fall 2021 Dean's List

WORK EXPERIENCE

Software Developer Co-op   Jan. 2023 – Apr. 2023

Royal Bank of Canada — *Java, SpringBoot, Maven, Jenkins, JIRA, Git*   Toronto, ON

- Enhanced existing **Springboot** APIs that powered mainframe verification and transactions at RBC ATMs.
- Investigated and resolved **22** critical security vulnerabilities in the codebase caused by specific **Maven** dependencies, twice as fast as estimated by the manager.
- Performed successful migration of legacy **Springboot** applications from **Java 8** to **Java 17** by rewriting incompatible code components into new syntax and updating sub-dependencies.

Software Engineer Co-op/Part-Time   Jan. 2022 – Dec. 2022

University Health Network — *Python, MSSQL, ReactJS, PHP, LaTeX, Git*   Toronto, ON

- Developed an automated **ETL** pipeline to transform custom clinical survey results into a normalized data model in **pandas** to enable standard data visualization practices.
- Proactively increased the team's productivity by writing reusable scripts for generating clinical result reports.
- Commended by the team's manager for exceeding expectations and invited back as a part-time **Python** developer.

RELEVANT EXPERIENCE

Langchain Open Source Contribution — *Python*   Sep. 2023 - Dec. 2023

Popular LLM Library with over **88K** stars

- Expanded language support in **Langchain** within the LanguageParser module to enable Retrieval Augmented Generation (RAG) with source code files in **12** programming languages.
- Pull request reviewed and accepted within **2** months and merged into version 0.1.17.

Scholarly — *Next.js, Node.js, PostgreSQL, TypeScript, Docker, AWS Lightsail*   Jan. 2023 – Apr. 2023

Real-time online tutoring application powered by **WebRTC**

- Architectured real-time video chat using **WebRTC** for low-latency communication between students and tutors.
- Implemented a production-ready payment system with **Stripe**, following best practices for asynchronous payment processing with **webhooks**.
- Deployed the application using **Docker** and **Amazon Lightsail**, with **LetsEncrypt** TLS certificates.

Weast — *Python, SQLite, AWS, Papertail, OpenAI*   Jun. 2021 – Present

ChatGPT Discord bot with over **500 active users**

- Structured a robust WebAPI to store images on AWS S3 resulting in **10%** better time and space efficiency.
- Integrated a chatbot command using **OpenAI's ChatGPT API** for instant search and conversational queries resulting a **30%** increase in user interaction.
- Streamlined deployment by serving the project over an **AWS EC2** server using **Docker** containers and setup CI/CD using **GitHub Actions**, resulting in a seamless experience for users.