Maaz Hashmi

Open Source Contributor — Software Engineer — Full Stack Developer

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SKILLS

Languages: Python, Java, JavaScript/TypeScript, C, SQL
Frameworks: React (Native), Django, Next.js, Node.js, Express.js, Flask, HTMX, SpringBoot, MongoDB, PostgreSQL, MSSQL
Tools: Git, Docker, Databricks, Kubernetes, Azure, AWS, Terraform, GitHub Actions, CI/CD, Maven, Jenkins, Jira, LaTeX

WORK EXPERIENCE

Software Developer   Aug. 2024 – Present
Electric Mind — *Python (Django/Flask), TypeScript (React/Node.js), SQL, Docker, Azure, Databricks*   Toronto, ON

- Developed a **Master Data Management** system for an insurance broker using **Django**, **SQL**, and **Azure** automating data ingestion, cleansing, and role-based approvals, significantly reducing the client's data management overhead by at least **30%**.
- Designed and implemented an automated schema deployment framework with **Liquibase** and **Azure DevOps**, optimizing **SQL** schema migrations across environments and improving the client's deployment efficiency by **20-30%**.
- Engineered an **AI** calling agent for automating fleet service appointments, streamlining the client's staff operations.

Software Developer Co-op   Jan. 2023 – Apr. 2023
Royal Bank of Canada — *Java, SpringBoot, Maven, Jenkins, JIRA*   Toronto, ON

- Enhanced existing **SpringBoot** APIs powering mainframe verification and transactions at over **4000** RBC ATMs.
- Resolved **22** critical security vulnerabilities in the codebase caused by **Maven** dependencies, twice as fast as estimated.
- 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*   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 **Stripe** payment system with asynchronous processing via **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**

- Integrated a chatbot command using the **GPT API** 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.

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.