

MAHIR KHANDAKER

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience building secure, scalable web applications and cloud-native systems. Proficient in Java, Spring Boot, React, Node.js, PostgreSQL, AWS, and Docker. Proven ability to deliver end-to-end solutions, lead technical initiatives, and support cross-functional teams. Winner of internal AWS hackathon, with a focus on AI integration, automation, and system design.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL
Full Stack: React.js, HTML5, CSS3, Tailwind CSS, Bootstrap, Node.js, Express.js
Cloud & Infrastructure: AWS (Lambda, API Gateway, S3, RDS), Docker, Jenkins

PROFESSIONAL EXPERIENCE

Associate Software Engineer

Sun Life Financial – Toronto, ON | January 2024 – Present

- Enhanced backend telemetry system to track Single Page Application (SPA) user events using Spring Boot and Kafka Sidecar. Upgraded microservices from legacy Spring Boot and Java versions to latest supported releases, improving security, compatibility, and long-term maintainability. Resolved dependency conflicts, API deprecations, and build issues across services during migration to modern JDK and framework versions.
- Developed a reusable chatbot UI widget in React, published via NPM, and UMD modules to serve diverse web apps across departments. Implemented advanced features such as draggable UI, container resizing, and theme customization through environment-based configurations.
- Contributed to a vendor-agnostic centralized login system from the ground up using React, Node.js, and PostgreSQL, enabling single sign-on (SSO) across multiple internal applications. Assisted in architecting the system to decouple authentication from Okta, allowing future integration with other identity providers and reducing vendor lock-in.
- Led winning AWS Hackathon project integrating Amazon Q with Confluence, implementing a Retrieval-Augmented Generation (RAG) pipeline to enable secure, context-aware internal search using generative AI.
- Practiced Agile methodology: daily standups, sprint planning, and backlog grooming to meet sprint targets.
- Tech Stack: Java, Spring Boot, Kafka, Okta JWT, PostgreSQL, React, JavaScript, Node.js, AWS, Docker, Jest, Jenkins, Bitbucket, Git

Embedded Software Developer Co-op

Molex – Waterloo, ON | January 2022 – August 2022

- Refactored a multithreaded legacy system into two single-threaded concurrent processes in C, reducing runtime by 10% and mitigating race conditions.
- Developed a comprehensive unit and integration tests, validating system functionality across edge cases and input boundaries.
- Tech Stack: C, Python, Cantata, Jenkins, QNX

Software Developer Co-op

TD Bank – Toronto, ON | September 2021 – December 2021

- Built and maintained ETL pipelines with C#, SQL, and SSIS to process cross-departmental datasets.
- Managed data validation and transformation for both active and deprecated financial functions.
- Tech Stack: C#, SQL, SSIS, RSA Archer

Full-Stack Developer

MAX Gala – Toronto, ON | June 2021 – August 2021

- Led development of a Q&A feature that increased site engagement by 30%.
- Improved site load time by 20% using lazy loading and pagination, enhancing overall user experience.
- Tech Stack: React, Node.js, AWS (RDS, S3, Lambda), PostgreSQL, Docker

PROJECTS

React Portfolio Website

June 2025

- Built a responsive portfolio with React and Tailwind CSS; deployed via Netlify with GitHub version control.
- Tech Stack: React.js, TypeScript, Tailwind CSS, GitHub, Netlify

EDUCATION

B.Eng. Electrical and Biomedical Engineering

McMaster University – Hamilton, ON | April 2023

- Relevant Coursework: OOP in C, Data Structures & Algorithms in Java, Final-Year Capstone