

Jacob Mabin

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EDUCATION

Toronto Metropolitan University

Bachelor of Science in Computer Science

Toronto, ON

Sep. 2024 – Present

- BYTE Tech Group, Google Developer Group, Computer Science Course Union, and TMU Taekwondo.

EXPERIENCE

Callings.AI

Jun. 2025 – Present

San Mateo, CA

Full Stack Software Engineer (Part-time, Remote)

- Helped normalize 7M+ job records from multiple vendors into a unified format for natural language search.
- Re-engineered LLM enrichment pipelines handling 220K jobs/day, cutting costs by 433%.
- Developed TF-IDF Random Forest and BERT models to fill missing job fields with 94% accuracy.
- Built an embedding-based matching system ranking candidates from 12K+ Contacts.
- Created automated benchmarking tools to evaluate accuracy, speed, and cost across LLM providers.

Resumate

Feb. 2025 – Present

Toronto, ON

Co-Founder

- Co-founded an AI-powered platform generating job-specific resume rewrites via a Chrome extension.
- Designed a retrieval-augmented generation (RAG) pipeline improving ATS keyword precision.
- Built a Node.js/Firebase backend streaming LaTeX-styled Base64 PDFs from parsed resumes.
- Integrated Stripe for credit-based billing and secured users via OAuth 2.0, JWTs, and Firebase Auth.
- Developed an editor with copilot-style LLM suggestions, ATS keyword highlighting, and scoring.
- Applied Agile practices, managed sprints with Jira, and deployed continuously through CI/CD.

PROJECTS

JACOBAMOBIN.COM

Sourced | Python, Flask, React, Three.js, Gemini, Search Grounding, Metas SAM 2

- Won 1st Overall and Best Solo Hack among 200+ developers, earning \$1,450 total in prizes.
- Built an agentic RAG pipeline using Gemini 2.5 and search grounding to source real-time supply chain data.
- Integrated Meta's SAM models to segment product images and infer 3D geometry for internal components.
- Engineered an immersive React Three Fiber dashboard to render explorable, exploded product views.
- Visualized global component sources on an interactive 3D globe to promote sustainable consumption.

Ontario Car Meets | Java, Spring Boot, MySQL, JWT, Google Cloud Platform, Swift, SwiftUI, SwiftData

- Designed and developed an iOS app that tracks car meets and cruises across Ontario.
- Engineered a robust Spring Boot backend with MySQL database and JWT authentication.
- Deployed backend infrastructure on Google Cloud Platform for scalability and reliability.
- Developed an iOS app using SwiftUI for intuitive UI and smooth user experience.
- Integrated SwiftData for seamless local persistence and reactive state management.
- Implemented real-time location tracking and interactive maps for meet discovery and organization.

SKILLS

Programming & Tools: Java, Python, ASM, C, Swift, JavaScript, HTML, CSS

Frameworks: React, Node.js (Express), TailwindCSS, React Native, SwiftUI, SwiftData

Backend & Cloud: Spring Boot, Flask, MySQL, Google Cloud Platform

Developer Tools: Git & GitHub, VS Code, PyCharm, Jupyter Notebook, Bash, Shell Scripting

LEADERSHIP & CERTIFICATIONS

BYTE Tech Group | Technical Lead

- Led a team of 30+ student developers in building a application for automated test generation and security audits of diverse codebases.

Certifications

- Second Degree Black Belt — World Taekwondo Federation (2021)
- Assistant Instructor Coaching Certification — Coaching Association of Canada (2021)