Jacob Mobin

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EDUCATION

Toronto Metropolitan University   Toronto, ON
Bachelor of Science in Computer Science   *Sep. 2024 – Present*
- TMU Taekwondo, Google Developer Club

TECHNICAL SKILLS

Languages: Java, Python, ASM, HTML/CSS, C, Swift, JS
Frameworks: React JS, 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

PROJECTS   JACOBAMOBIN.GITHUB.IO

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

Rapid Resume | *React.js, Node.js, Firebase, TailwindCSS, Chrome DevTools, Postman*
- Developed a **Chrome extension** that uses an **LLM** to generate **job-specific resume rewrites** in one click.
- Built a **Node.js**/**Firebase** backend that parses resumes and **streams LaTeX-styled**, **Base64**-encoded PDFs.
- Designed **Firestore schemas** for user data and integrated **Stripe** for credit-based payments.
- Implemented **Google Sign-In** with **Firebase**, **OAuth**, **JWT**, and **RESTful APIs** to secure access.

Apple Intelligence WatchOS | *Swift, SwiftUI, WatchKit, OpenAI API, Perplexity API*
- Developed a **standalone WatchOS app** enabling **live chats** with **personalizable AI agents**.
- Optimized **real-time speech recognition** and **TTS**, reducing average response time to **2s**.
- Leveraged **Perplexity API** to speed up query handling with near-instant response times.
- Designed an **Apple Intelligence**-like glow effect in **SwiftUI** to improve visual feedback during voice interactions.

Ability (Hackathon Project) | *Python, Swift, Gemini API, Groq API, SceneKit, Bpy, Docker, FastAPI*
- Created an **iOS** app that lets users generate **3D-printable** assistive devices from simple text inputs.
- Automated .bpy model creation with **Gemini** and **Groq APIs** and a **Python** backend for rendering .obj files.
- Built a **SwiftUI** interface to guide users through model generation and refinement.
- Rendered dynamic 3D previews using **SceneKit** with **real-time feedback optimization**.

EXPERIENCE

Summer Camp Counselor/Assistant Instructor   Jun. 2019 – Aug. 2023
Royal Taekwondo (Paid/Volunteer Positions)   *Toronto, ON*
- Engaged and motivated children aged 4-12 by teaching taekwondo during dynamic summer camp sessions.
- Developed age-appropriate training modules that boosted confidence, discipline, and physical fitness.
- Fostered a fun, energetic learning environment while emphasizing safety, respect, and teamwork.

ACHIEVEMENTS

Coding/Data Science | *Python, Artificial Intelligence, Machine Learning*
- GenAI Genesis Hackathon @ University of Toronto − Mar. 2025
- DS3 Datathon @ University of Toronto Scarborough − Feb. 2025
- 4th at Robotics for Space Exploration @ University of Toronto − Feb. 2024

Taekwondo | *World Taekwondo Federation, Kukkiwon*
- Achieved Second Degree Black Belt − Oct. 2021

Coaching | *National Coaching Certification Program*
- Achieved Assistant Instructor Coaching Certification with the Coaching Association of Canada − Mar. 2021