

Jacob Mobin

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EDUCATION

Toronto Metropolitan University

Bachelor of Science in Computer Science

- TMU Taekwondo, Google Developer Club

Toronto, ON

Sep. 2024 – Present

TECHNICAL SKILLS

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

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

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

PROJECTS

[JACOBAMOBIN.GITHUB.IO](https://jacobamobin.github.io)

Rapid Resume | *React.js, Node.js, Firebase, TailwindCSS, Chrome DevTools, Postman*

- Launched 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 Intelligenece** 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**.

Minecraft Block GUI | *Java, Java 3D API*

- Developed a **3D visualization tool** to sort, filter, and display **100+ Minecraft blocks**.
- Built an **interactive overlay** showing block properties, crafting recipes, and metadata.
- Optimized **3D rendering** for smooth navigation using mouse-driven controls in **2d and 3d scenes**.

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