

# 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 to users.
- 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.
- Built responsive 3D visualization of blocks with interactive controls.

## 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 – Mar. 2025
- DS3 Datathon – Feb. 2025
- 4th at Robotics for Space Exploration at 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