

Truman Chan

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EDUCATION

York University & Schulich School of Business

Toronto, ON

Bachelor of Science (Honours) in Computer Science & Master in Management (Double Degree) Sept. 2024 – Apr. 2027

Carleton University

Ottawa, ON

Bachelor of Science (Honours) in Computer Science

Sept 2023. – Apr 2024

EXPERIENCE

Software Engineer Intern

June 2024 – Dec 2024

ITMZ

Toronto, ON

- Developed mobile app features for a **startup**, adapting to a **fast-paced environment** with evolving priorities, tight deadlines, and cross-functional collaboration.
- Designed the UI in **Figma** and implemented it in **Flutter and Dart**, ensuring an intuitive and accessible experience.
- Leveraged **AWS DynamoDB** and **AWS S3** for scalable data retrieval and secure content management.
- Optimized app performance and improved **internet connectivity handling**, reducing latency and enhancing user experience.
- Competed in the **Gemini API Competition**, contributing to the video pitch and earned **Honorable Mention**.

PROJECTS

MockMate, AI Interview Bot | *Next.js, OpenAI API, Azure Speech, Prisma, PostgreSQL (AWS RDS)*

- Developed an AI-powered interview platform at **UofTHacks 12**, leveraging **Azure Speech** and **OpenAI API** to simulate dynamic, real-time interview questions.
- Built a scalable backend with **Prisma ORM** and **PostgreSQL (AWS RDS)**, ensuring high availability and optimized query performance.
- Implemented a **real-time analytics system** that provides users with actionable feedback and personalized performance insights.
- Secured authentication and session management with **NextAuth.js**, **bcrypt**, and **JWT**, ensuring data privacy and security.

Sesame, AI-Powered Productivity App | *Next.js, Spring Boot, PostgreSQL, Three.js, JWT, Google Calendar/OpenAI API*

- Developed a **full-stack productivity tool** with a to-do list, calendar, study timer, and analytics dashboard, enhancing productivity through **Three.js** visualizations and an interactive **Next.js** frontend.
- Integrated the **Google Calendar API** for real-time event viewing and implemented **OpenAI** to automate task prioritization and generate personalized **study tips**.
- Built a scalable **Spring Boot** backend with **PostgreSQL (Supabase)**, implementing **JWT authentication** and optimizing **RESTful APIs** for efficient data management, seamless CRUD operations, and improved system reliability.

Virtual Mouse | *Python, OpenCV, MediaPipe, PyAutoGUI, NumPy*

- Built a **vision-based virtual mouse** using **OpenCV** and **MediaPipe** for **real-time hand tracking**.
- Implemented **gesture recognition algorithms** with **Euclidean distance** and **angle detection** to support left-click, right-click, scrolling, and screenshots.
- Enhanced **motion stability** with smoothing filters and optimized **frame processing** for reduced latency.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML/CSS, C, Dart, PostgreSQL, Assembly

Frameworks: Spring Boot, Flutter, AWS Amplify, Firebase, React, Node.js, Flask, Tailwind CSS, JSON, JavaFX, Three.js

Developer Tools: Git/GitHub, TravisCI, Firebase, AWS, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Figma

Databases & Libraries: MongoDB, DynamoDB, AWS RDS/S3, OpenCV, MediaPipe, Prisma ORM, bcrypt, JWT