Joshua Li

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Skills

Languages: C++, C, Java, Python, JavaScript, TypeScript, HTML/CSS, Assembly, Terraform, Bash, SQL.
Libraries/Frameworks: React.js, Angular, Express, Django, Flask, Spring Boot, PostgreSQL, Kubernetes, Pandas, Scikit-learn.
Developer Tools: MongoDB, Firebase, Milvus, Git, GitHub, Maven, Jupyter, Docker, GCP, AWS.

Education

University of Waterloo   **Sep. 2022 – Apr. 2027**
Bachelor of Computer Science   *Waterloo, ON*
- Cumulative GPA: **3.99** (**93**).
- Relevant Coursework: Object-Oriented Software Development (**C++**), Foundations of Sequential Programs (**Assembly**), Elementary Algorithm Design and Data Abstraction (**C**).
- B.P. Dammizio Entrance Scholarship, President's Scholarship of Distinction.

Experience

Sun Life   **Jan. 2024 – Present**
Software Engineer   *Toronto, ON*
- Built full-stack carpooling application with RESTful backend using **Figma**, **Angular** (**Typescript**), **Spring Boot**, and **PostgreSQL**.
- Processed and visualized **1500+** geographical areas in high-visibility project using **Python** (**Pandas**, Matplotlib) on **AWS** SageMaker notebook
- Reduced **80%** of offer validation time using **Selenium** in **Java**, **TestNG** and Sun Life's **Gen AI** platform.

CGI   **May 2023 – Sep. 2023**
Developer   *Toronto, ON*
- Completed cloud migration for containerized applications from on-prem to **GCP** with an agile team.
- Deployed multiple POC applications with **Kubernetes** (GKE), **Helm**, and service mesh solutions (Istio, ASM).
- Developed IAC in GCP using **Terraform** for Cloud Armor, VPC Firewall and Anthos.
- Won **1st** at the CGI x Google AI Dragon's Den with an innovative solution leveraging **Gen AI** (Vertex AI).

Pensieve (Startup)   **Jul. 2021 – Sep. 2021**
Software Engineer, Intern   *Remote*
- Contributed **40+** pull requests to Silicon Valley-based startup (CMU Incubator)
- Automated user research workflow using **React.js**, **CSS, Express** (**Node.js**), and **MongoDB** to facilitate file upload/edit, dot-voting and affinity map creation.
- Worked with world-class team over Slack, Notion (**Kanban**), GitHub, and Figma to deliver the MVP.

Research

Schwartz Lab 🔗 📖 | *HTML/CSS, JavaScript, Python, Django*   **Sep. 2023 – Feb. 2024**
- Spearheaded full-stack interactive data visualization tool using **D3.js** and **Three.js**, illustrating graph-based cell-to-cell communication with **1400+** nodes and **1200+** links.
- Published paper with Dr. Gregory Schwartz at the Princess Margaret Cancer Centre.

PREVENT 🔗 | *Python*   **Feb. 2024 – Present**
- Predicting diabetes complications using open-source vector database **Milvus** under Dr. Karim Keshavjee.

Projects

SafeBlurr @ MHacks 🔗 | *Python, Flask, GCP*   **Nov. 2023**
- Won **1st** in the social impact track and **3rd** for most innovative use of data among 350+ participants at the University of Michigan's annual hackathon.
- Built mobile app designed to anonymize video recordings during protests.
- Generated closed captions using **MoviePy**, **Google Cloud Vision API** and **Google Cloud Storage**.

Awards

USA Computing Olympiad
- Achieved **Gold** Division (approx. top **20%** of all contestants) through competitive programming in **Java**.