Joshua Li

j234li@uwaterloo.ca ❖ joshuali.ca ❖ linkedin.com/in/joshli04 ❖ github.com/joshlicoding

SKILLS

- **Languages:** React.js, C, Linux Shell, Java, JavaScript, HTML/CSS, Python, Terraform.
- **Frameworks:** Node.js, Kubernetes, Express, Scikit-learn, TensorFlow.
- **Developer Tools:** MongoDB, Firebase, Git, GitHub, Docker, Google Cloud Platform (GKE, Anthos, GAR), Helm, Istio.

WORK EXPERIENCE

CGI   **May 2023 – Present**
Developer
- Created Proof-of-Concepts using **GCP** and **Kubernetes** to promote hybrid cloud best practices at CGI.
- Deployed **3** sample applications using **Terraform**, **Helm** and **Istio** Service Mesh on GCP (Google Kubernetes Engine, Google Artifact Registry) to understand cloud migration.
- Explored protocols (IP, TCP, HTTP) and networking (Envoy proxy) in-depth in workshops with team members.

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

PROJECTS & PROGRAMS

Polyglot.io (devpost.com/software/polyglot-io)
- Created a video-chatting app using **React.js** and **NLP** to gamify language-learning.
- Programmed a mad-libs game by combining **Axios** requests with Parts-of-Speech **API**s to generate quotes and process them in both English and French.

NOTZR (github.com/j4x04/notzrV1)
- Co-founded a notes-sharing platform with **50+** notes using **React.js** and **Chakra UI** for Toronto IB students.
- Built with **Firebase** (Realtime Database, Storage) backend to display notes catalogue and view/upload notes.

Inspirit AI Programs (inspiritai.com/liveonline)
- Employed sentiment analysis using **Python NLP** techniques (Bag-of-Words, LSTM, BERT) to process financial news text segments achieving **95%** validation accuracy.
- Implemented autonomous driving with **TensorFlow** using Imitation Learning and **Reinforcement Learning** (Deep Q-Learning) to simulate driving a car around a racetrack.

AWARDS & INTERESTS

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

Enjoy rock climbing, biking, and reading about philosophy in my free time.

EDUCATION

University of Waterloo   **Sept 2022 – April 2027**
Candidate for Bachelor of Mathematics, Honours Computer Science
- Cumulative GPA: **3.98**.
- Relevant Coursework: Elementary Algorithm Design and Data Abstraction (**C** language), Tools and Techniques for Software Development (**Linux Shell**).