

Alan Zhou

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EDUCATION

• University of British Columbia

Vancouver, BC

Major in Computer Science; GPA: 4.10

- **Courses:** Software Construction, Systematic Program Design, Models of Computation
- **Activities:** Competitive Programming Team (ACM ICPC); Film Society; Intramurals

SKILLS

- **Languages:** C++, Go, JavaScript, TypeScript, Python, Kotlin, Java, OCaml, HTML/CSS
- **Frameworks and Tools:** Node.js, GraphQL, Express.js, React, PostgreSQL, Git, AWS, Docker, OpenGL

EXPERIENCE

• Littledrop [↗](#)

Vancouver, BC

Backend Developer

May 2023 - Sep 2023

- Developed and maintained RESTful APIs using **Node.js** and **Express.js**, enhancing the functionality of web applications and improving **API response times by 25%**
- Implemented authentication and authorization mechanisms using **JWT** and **OAuth2**, enhancing security for user data

• Blender Foundation [↗](#)

Vancouver, BC

Open Source Developer

Jan 2024 - Present

- Identified and resolved **software bugs** to ensure the reliability and performance of the **Flamenco** distributed rendering system in **Go** and **Python**
- Coordinated with teams to streamline the development workflow, leveraging **Gitea** for version control and **Buildbot** for CI processes

PROJECTS

• PrettyGrader [🔗](#)

Sep 2023

- Developed a **Chrome extension** using HTML, CSS, and JavaScript that revamped the default UI of the autograder for my CPSC 110 class, used by over **800 students**
- Improved readability by implementing a **clean design**, and added extra features such as **syntax highlighting** and improved dashboard navigation

• Euler Fluid Simulation [🔗](#)

Jun 2023

- Developed a robust Fluid Dynamics Simulator using **C++** and the **Simple and Fast Multimedia Library** to explore fluid flow phenomena
- Implemented custom density and velocity solvers and **optimized algorithms** for computing the evolution of velocity fields

• 3D Polygon Renderer [🔗](#)

Sep 2023

- Created 3D pipeline from scratch using JavaScript and HTML canvas to **render polygons** through a moving camera using **perspective projection** and linear algebra.

• UBC Talks [🔗](#)

Sep 2023

- Developed a course-specific discussion platform using **Typescript**, with a **Next.js frontend and serverless backend**, aimed at facilitating communication and collaboration among UBC students