



# Alan Zhou

alanzhou.tech 

linkedin.com/in/therealalan 

alanzhou318@gmail.com

+1-672-513-3627

github.com/alantensor 

## EDUCATION

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### • University of British Columbia

Vancouver, BC

Major in Computer Science, B.Sc.; GPA: 4.10/4.33

Sep 2023 - Jun 2027

- **Courses:** Software Construction, Models of Computation, Data Structures & Algorithms
- **Activities:** Competitive Programming Team (ACM ICPC); Film Society; Intramurals

## SKILLS

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- **Languages:** C++, Golang, JavaScript, TypeScript, Python, Kotlin, Java, OCaml, HTML/CSS
- **Frameworks/Tools:** gRPC, GraphQL, Next.js, Node.js, PostgreSQL, Redis, Git, AWS, Docker, Kubernetes

## EXPERIENCE

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### • SafeBite

Toronto, ON

Software Engineering Intern

May 2024 - Sept 2024

- **Architected and implemented** the core PostgreSQL database schema, drove key **system design decisions**, and developed front-end features of the business-facing web app with **Next.js**.
- Implemented **Stripe webhooks** for seamless payment processing, developed and integrated **Row-Level Security** policies, ensuring robust user data protection and secure transactions.
- Developed and deployed **containerized microservices** using **Docker** to ensure consistency and seamless integration with serverless architecture

### • Littledrop

Vancouver, BC

Software Engineering Intern

May 2023 - Jan 2024

- Utilized **Node.js** and **TypeScript** to develop **GraphQL APIs** for multiple projects, leveraging **JWT** and **OAuth2** for authentication and **Redis** for session management/caching
- Enhanced performance of the client management portal by reducing database query latencies by over **200%** through indexing essential items in the existing **PostgreSQL database**.

### • Mozilla

San Francisco, CA

Open Source Developer

Jan 2024 - Present

- Worked on **Firefox browser toolkits** in JavaScript and C++. Improved reader mode functionality by rolling out a **custom themes menu** and adding **accessibility features**, leveraging **Mercurial** for version control and **Phabricator** for collaboration.
- Developed custom **unit and integration tests** using **Mocha** to validate new features and code changes. Utilized in-house CI/CD tools to automate the testing process.

## PROJECTS

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### • UBC Talks

Apr 2024

- Developed a reddit-esque discussion platform using **Typescript**, **Next.js**, and **Supabase** aimed at facilitating communication and collaboration related to courses/course selection among UBC students
- Implemented **OAuth2.0 flow** for authorization, and **deployed serverless container** to Google Cloud Run using **Docker**

### • 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