# Sean Zhang

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#### SKILLS

Languages: Python, TypeScript, JavaScript, C, C++, Rust Tools & Frameworks: React.is, Next.is, Node.is, Docker, MongoDB, Jest

## **EDUCATION**

University of Waterloo
Bachelor of Computer Science

Sep 2019 - Apr 2025

#### EXPERIENCE

Vivid Seats Sep 2023 - Dec 2023

Software Engineer Intern

- Improved Google web vitals scores on over **65,000** pages by identifying and resolving unexpected layout shifts on <u>vividseats.com</u> using **Next.js** and **TypeScript**.
- Increased Gross Order Value (GOV) by over **\$3 million** by converting location-based suggestions to render server-side using Next.js.
- Reviewed and implemented unit tests using **Jest** and **React Testing Library**, increasing test coverage by 1%.

**Cynorix** Jan 2023 - Apr 2023

Software Developer Intern

- Cut development time for 2FA file decryption by **20**% by extracting stateless business logic from **React.js** components.
- Increased customer conversion by **over 5**% by improving the reliability of saved payment tokens recieved by the **Stripe API**.
- Integrated single sign-on into Cynorix's filesharing product using Google Auth API.

Lambdus Sep 2021 - Aug 2022

Software Engineer and Co-founder

- Architected a web app using **Next.js**, **Express.js**, and **MongoDB** to make animating more accessible to individual animators.
- Containerized application using **Docker**, enforcing consistent deployment behaviour across different environments.
- Pitched idea to a panel of venture capitalists and judges with varying technical backgrounds at the **semi-finals** of Velocity \$5k pitch competition.

Genesys May 2020 - Aug 2020

Quality Assurance Intern

• Reduced ticket creation time by **over 70%** by creating a program to bulk create Jira tasks using **Python** and **Jira REST API**.

### PROJECTS

Research Assistant Working on light transport algorithms under Prof. Toshiya Hachisuka Fluid Simulation & Navier-Stokes fluid simulation that is numerically stable using JavaScript.

Ray Tracing Implemented a renderer from scratch based on ReSTIR paper using Rust.