

# STANLEY CHEUNG

Major in Computer Science, Year 3

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## EDUCATION

**The University of British Columbia** | GPA: 4.33/4.33

September 2022 – May 2027

B.Sc, Major in Computer Science

Vancouver, BC

- **Courses:** Relational Databases, Algorithms & Data Structures, Computer Systems, Object-Oriented Programming
- **Awards:** 2023–2024 Charles & Jane Banks Scholarship, 2022–2023 UBC Science Scholar (standing of 90%+) & Dean's List

## EXPERIENCE

**Full Stack Developer** | React, TypeScript, Express.js, PostgreSQL, AWS

January 2024 – July 2024

VoltSafe Inc.

Vancouver, BC

- Designed and implemented an end-to-end roles-based access control system with an Express.js, PostgreSQL, and AWS Cognito backend, ensuring controlled access to the internal admin dashboard.
- Developed and Dockerized a server monitoring system and visualization web app using React, Express, and Prometheus, enabling real-time collection and analysis of CPU, RAM, and disk metrics across 7+ EC2 web and database servers.
- Developed an image and document storage system with RESTful API for the marina management app, leveraging AWS S3 to optimize performance and reduce bandwidth costs, enabling seamless upload and retrieval of customer documents and vessel images.
- Conducted performance analysis of the marina management app using Chrome Lighthouse, reducing total app bundle size by 22% by pruning unused static assets, leading to improved load times.
- Authored a comprehensive QA report, identifying over 15 functionality and UI bugs across 3+ major browsers, and provided detailed reproduction steps and actionable next steps, enhancing overall application stability.

**AP Computer Science Instructor**

October 2022 – February 2023

iSmart Education Canada

Vancouver, BC

- Designed and taught weekly CS lessons on algorithms, data structures, and Java programming.
- Generated \$3000+ revenue for the company part-time.
- Exceeded expectations by supporting students, some still in primary school, in achieving 5/5 on the AP CSA 2023 exam.

## TECHNICAL PROJECTS

**Eat n' Log** | React Native, Redux, Figma

June 2023 – October 2023

- Worked with a multidisciplinary team of 15 to develop an IOS mobile app, enabling food lovers to seamlessly document and share their favourite dishes and dining experiences.
- Developed five core frontend features using React Native with Redux for state management: search bar, tag filtering, home screen, authentication flow, and editable user entry pages.

**Image Compression Tool** | C++

July 2023

- Built an image compression program in C++ that can process images up to 5 million pixels.
- Implemented a recursive traversal function to prune subtrees within a user-determined tolerance threshold, enabling compression at different intensities.
- Leveraged dynamic programming to calculate average HSLA pixel values in  $O(1)$  time instead of  $O(n)$ .

**TwoChess** | Java, JUnit, Swing

April 2023

- Created a two-player chess game using the Model-View-Controller (MVC) design pattern.
- Wrote a full-fledged suite of unit tests with JUnit resulting in 100% code coverage.
- Implemented local storage using JSON, allowing users to save and resume past matches.

## TECHNICAL SKILLS & CERTIFICATIONS

**Languages:** TypeScript, JavaScript, Python, C, C++, Java, SQL

**Frameworks:** React, Express.js, Recoil, MUI, Ant Design

**Other:** Node.js, PostgreSQL, Docker, Git, AWS, RESTful APIs, Sequelize ORM, Linux, React Query, Prometheus, Jira

**Certifications:** AWS Certified Cloud Practitioner