Shuyao Wen

EDUCATION

University of British Columbia   **Expected Graduation: Apr 2024**
Bachelor of Applied Science – Computer Engineering
- Cumulative Average: **86%**, **Dean's Honor List**, Enrolled in Engineering **Co-op** program

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PROFESSIONAL EXPERIENCE

Splunk Inc. | *Software Engineer Co-op*   **Jan 2023 – Apr 2023**
- Spearheaded the design for a distributed state store interface for OpenTelemetry
- Implemented a proof of concept for a crash-tolerant data collection system using K8s lease, SQS, and etcd
- Enabled more efficient design prototyping by creating a mock OpenTelemetry receiver

Phoenix Labs | *Software Engineering Co-op*   **May 2022 – Dec 2022**
- Built the K8s microservices responsible for the game mode "Gauntlet" in the action RPG Game *Dauntless*
- Improved API performance by up to 80% by optimizing the API Bigtable database query through Bigtable filters
- Improved deployment tooling by automating K8s config map object deployment through Jenkins

Arista Networks | *Software Engineer Intern (CloudVision Back-end)*   **Jan 2022 – Apr 2022**
- Optimized network simulation software using Go, decreasing simulation runtime from 10 hours to 4 hours
- Increased flexibility of network simulation software by adding the ability to execute CLI commands
- Increased ease of use of network simulation software through automation build scripts

Microchip | *Architecture Co-verification Engineer Intern*   **Sep 2021 – Dec 2021**
- Connected existing SystemVerilog verification setup to C++ code using SystemVerilog DPI
- Built new C++ microchip verification framework, automating a 4-hour testing process into a pipeline
- Created a Makefile to automate test compilation of the new C++ microchip verification framework

UBC Bionics Engineering Student Design Team | *Software Embedded Team*   **May 2021 – Dec 2022**
- Member of a multi-disciplinary engineering student team designing and implementing a bionic arm
- Created Rust kernel software that manages the software components of the arm through IPC technology

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TECHNICAL PROJECTS

StatSleuth Web Application↗   **Sep 2021**
- Simplified the process of querying technical documents for statistics through an easy-to-use web app
- Won 2nd place at Medhacks 2021. Web app was built with React.js, Express.js, and Elasticsearch

GoalStarter Android Application↗   **Dec 2020**
- Coded a full-stack Android application aimed to help individuals accomplish goals
- Built with Android Studio, Firebase, Express.js, and MongoDB

TECHNICAL SKILLS

Languages: Python, Rust, Go, Java, C, C++, JS   **Tools:** Git, Docker, Jenkins, K8s, GCP, AWS