

# Benson “Yubin” Shen

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## Education

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### University of Waterloo

Sept 2020 – Apr 2025

Bachelor of Applied Science in **Computer Engineering**

**Courses:** Algorithms & Data Structures, Systems Programming & Concurrency, Databases, Distributed Computing

## Skills

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**Languages** Python, JavaScript, TypeScript, Rust, C/C++, SQL, Java, HTML, CSS, Bash, PHP

**Frameworks** Node.js, React, Express, Flask, Tailwind CSS, Bootstrap, OpenAPI, Bazel, Selenium, PyTorch

**Tools** Git, AWS, Docker, Kubernetes, Jenkins, Linux, MongoDB, InfluxDB, Grafana, Heroku, Postman

## Experiences

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### BitGo – Software Engineer

Sept 2024 – Present

- Developing tools, workflows, and systems to enhance developer productivity as part of the Developer Experience team, leveraging **Rust, TypeScript, React, GitHub Actions**, and **Kubernetes**.

### Arctic Wolf – Full Stack Developer

Jan 2024 – Apr 2024

- Developed a backend server using **Python, Flask**, and **Bazel**, seamlessly interfacing with 7 Arctic Wolf APIs, leading to a **19%** reduction in data retrieval time for internal workflows.
- Led a comprehensive code refactoring initiative, revising over **8,000** lines of **Python** and **TypeScript** code, decreasing error rates by **30%**, while improving performance and code readability.
- Designed and implemented **React** components for an internal tool, enabling task configuration and enhancing task outcome visibility. Resulted in a **25%** improvement in operational efficiency.
- Engineered a **RESTful API** for data processing and retrieval using the **OpenAPI** library, establishing comprehensive API documentation to ensure scalability and maintainability.

### Tesla – Software Development Engineer

Jan 2023 – Apr 2023

- Spearheaded the development of the Industrial Stations Dashboard, leveraging **Grafana** and **InfluxDB** to provide real-time data visualizations and status updates for **12** test stations.
- Engineered and managed automated pipelines using **Python** and **Jenkins**, resulting in reduced downtime for industrial megapack test stations and improved operational efficiency.
- Developed a user-friendly network configuration tool with **tkinter** and **Jetstream switches CLI**, streamlining the setup process for test sites and reducing configuration time by **15 minutes** per test.
- Designed a setup procedure to integrate **Linux** systems into existing industrial test stations, boosting testing capabilities by an expected **50%**.

### Bluescape – Software Engineer

May 2022 – Aug 2022

- Developed the raise hand functionality for Bluescape Meet using **React** and the **Amazon Chime SDK**, resulting in a **17%** increase in user engagement and interaction during meetings.
- Implemented efficient sorting of participant tiles and automatic hand lowering features using **TypeScript**.
- Integrated real-time updates with **GraphQL** and **TypeScript** to optimize user identification and reduce waiting time by **22%** in the Bluescape Meet waiting room.
- Wrote comprehensive tests for both frontend and backend of Bluescape Meet using **Jest** and **Sinon**.

### Bluescape – QA Automation Engineer

Sept 2021 – Dec 2021

- Implemented and maintained **CodeceptJS** tests for the Bluescape platform with **TestRail** and **GitHub Actions**, resulting in an **11%** reduction in test execution time.
- Designed **K6** performance tests using **WebSocket** to evaluate the capacities of Bluescape workspaces providing valuable insights into system scalability and performance under load.

### ePleyer – Junior Web Developer

Jan 2021 – Apr 2021

- Constructed dynamic webpages using **HTML, JavaScript, Tailwind CSS**, and **Twig**, improving user experience and decreasing page load time by **35%**.