

Zaidaan Shibuya

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Education

University of Washington

GPA: 3.43

Bachelor of Science in Computer Science

September 2025 – March 2027

Relevant Coursework: Object Oriented Programming, Discrete Math, Software Development, Statistics, Matrix Algebra, Data Structures and Algorithms

Experience

Full-Stack Developer

Jan 2024

Alaba LLC

Seattle, WA

- Built a full-stack rental management system using Flask, React, and Firebase with role-based user access.
- Integrated real-time database sync and automated workflows to streamline rent payments and requests.
- Implemented secure authentication and authorization (JWT + Firebase Auth) to improve reliability.

Full-Stack Developer

May 2024

Fryzone

Seattle, WA

- Developed and deployed a responsive restaurant ordering platform integrating Square and Toast APIs.
- Designed RESTful endpoints and order tracking dashboards with live status updates for administrators.
- Utilized MongoDB for scalable data storage and implemented CI/CD pipelines with Git for deployment.

Technical Projects

Black-Scholes Option Pricing Model

October 2025 – Present

Python, LaTeX, Schwab API, Supabase, Fast API, React, Flask

- Engineered a Python-based option pricing engine using the Black-Scholes PDE and stochastic models.
- Implemented Monte Carlo and finite-difference methods for derivative pricing simulations
- Integrated Schwab API for real-time market data ingestion and automated volatility calibration.
- Automated generation of daily analytical reports using LaTeX and Supabase for persistence.

Rental Portal

April 2025 – July 2025

Python, Flask, React, PostgreSQL, Stripe API, Firebase Auth

- Built a full-stack rental management platform using Flask and React with role-based access control.
- Implemented secure authentication with Firebase Auth and JWT plus integrated rent tracking.
- Optimized PostgreSQL queries and containerized the backend for scalable, efficient performance.

Restaurant Ordering System

May 2024 – August 2024

HTML, CSS, JavaScript, Square API, MongoDB, Git

- Developed a responsive restaurant ordering site with Square and Toast APIs for real-time payments.
- Used MongoDB for efficient data storage and retrieval of customer orders and transaction history.
- Automated version control and deployment workflows using Git for faster updates and reduced downtime.

Extracurricular Involvement

UW Tacoma GitHired Officer – Active Member

Collaborate with peers on projects and participate in hackathons focused on data-driven web apps.

Technical Skills

Languages: Python, Java, JavaScript, HTML, CSS, SQL, C/C++, Bash, R

Frameworks: React, Flask, Node.js, Express, Tailwind, JUnit, Pytest

Developer Tools: Git, GitHub, Docker, Firebase, VS Code, IntelliJ, Ubuntu, LaTeX

Cloud & Deployment: AWS, Google Cloud, Supabase, PostgreSQL, MongoDB

APIs & Integrations: REST, GraphQL, Stripe, Square, Toast, Doordash/Uber/Grubhub