# SAM ZAPPA

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#### **EDUCATION**

# **University of Washington (Seattle)**

**Sep 2022 - June 2026 (expected)** 

- BS of Computer Science from Paul G. Allen School of CS & Engineering (in progress)
- 3.99/4.0 GPA
- Relevant coursework: Data Structures & Parallelism, Intro to Algorithms, Intro to Al, Distributed Systems, Systems Programming, Software Design & Implementation, Software Engineering

### **Garfield High School**

Sep 2018 - June 2022

· Class of 2022 Valedictorian

#### **PROJECTS**

# Lead Developer, SwipeFight

https://github.com/aidenkatsura/SwipeFight

- Lead full-stack development of SwipeFight, a cross-platform application that facilitates matchmaking between martial artists, as the central project of a quarter-long software engineering course
- Architected and developed scalable backend services using Firestore (NoSQL) and Firebase Auth, enabling user authentication, matchmaking logic, real-time chat, and leaderboard functionality
- Collaborated on frontend development of swipe interface, profile editor, and real-time chat system using **React Native**, Expo, and **TypeScript**, ensuring smooth user experience across iOS, Android, and web platforms
- Supported Continuous Integration (CI) pipelines with GitHub Actions, authored unit and
  integration tests with Jest, and maintained code quality through pull requests and code reviews

## **FlightApp**

Intro to Data Management, University of Washington

- Developed model flight reservation app (in Java) utilizing Azure SQL Database
- Designed relational database to track airline flights, customers, and reservations
- Utilized relational database planning and modeling tools including entity relationship diagrams
- Implemented database transactions, executing SQL queries via Java Database Connectivity API
- Wrote custom test cases for application functions, including transactional tests simulating multiple clients interacting with the reservation system at once

#### **SKILLS**

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS, C, C++, SQL, Dart Frameworks/Libraries: React, React Native, Expo, Node.js, Flutter, Jest, Mocha, D3.js

**Tools & Platforms**: Windows, Linux, Bash, Git, GitHub, GitLab, GitHub Actions, Firebase, IntelliJ IDEA, Visual Studio Code, Doxygen

**Databases & Data Management**: Firestore, Relational Databases, NoSQL, SQL Server, Azure SQL Database, SQLite

**Concepts**: Object-Oriented Programming, Distributed Systems, SDLC, Agile/Scrum, CI/CD, Data Visualization, Organization, Problem-solving, Communication