Justin Lai

Aspiring computer scientist with strong problem-solving and teaching skills, seeking opportunities to apply expertise in creating enjoyable software!

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Skills

- Software Engineering
- Object Oriented Design
- Embedded Systems
- Machine Learning
- Testing & Debugging

Languages

Tools

Apps: Android Studio, React Native

Editors: VS Code, Eclipse, Vim

Virtualization: VM, WSL

OS: Linux, Windows, Android

Documenting: OverLeaf, Microsoft Office, Google Docs

Courseworks

1. Data Structures
2. Algorithms
3. Operating Systems
4. Systems Programming
5. Real Time Embedded Systems
6. Concurrent Programming
7. Computer Architecture
8. Principles of Machine Learning
9. Testing, QA, and Maintenance
10. Software Development Process

Education

Stevens Institute of Technology, Hoboken, NJ
B.S; Computer Science
Minor; Pure and Applied Mathematics
GPA; 3.94 / 4.00

Projects

Fitness App and Sensor (Fall 2023 - Spring 2024)
- Worked with a team of six to develop a fitness app using React Native
- Employed embedded programming to read the weight from a load cell and send that to a phone via BLE 5.0
- Stored data permanently using SQLite
- Interviewed potential customers, documented progress, and prepared a presentation for our product

Basic Shell Program (Spring 2022)
- Implemented a mini shell in C with few built-in commands
- Used linux system calls and signals
- Dynamically allocated memory space and performed accurate parsing of user input

Experience

Quick Arithmetic (Summer 2022 - Winter 2023)
- Developed an android app and console app game to improve arithmetic skills in Java and C++ respectively
- Utilized multithreading and file storage
- Published the app on the Google Play Store

Course Assistant (Spring 2023 - Spring 2024)
- Assisted in coordinating multiple database courses
- Tasked with helping students and grading assignments
- Automated the creation of PostgreSQL tables from Excel data

Hobbies

Running: Competed in multiple races including a marathon

Piano: Performed in over ten piano recitals

Asian American Club: Led as co-president of the AAC club at Parsippany Hills HS