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
- App Development
- Database Management
- Machine Learning
- Testing & Debugging

Languages

Tools

Apps: Android Studio, React Native

Editors: VS Code, Eclipse, Vim

Virtualization: VM, WSL

Database: PostgreSQL, SQLite

Documenting: OverLeaf, Microsoft Office, Google Docs

Courseworks

1. Data Structures
2. Algorithms
3. Software Development Process
4. Testing, QA, and Maintenance
5. Database I & II
6. Machine Learning
7. Mobile Systems and Apps
8. Concurrent Programming
9. Cloud Computing
10. Theory of Computation

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

Sepsis Replication Study (Spring 2023)
- Implemented an ANN to predict 30-day sepsis mortality
- Used SQL to perform complex queries to retrieve data from the MIMIC-III dataset
- Authored a research paper detailing key findings

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