



# 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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LinkedIn

GitHub

## Skills

- App Development
- Software Testing
- Web Development
- Embedded Systems
- Documenting

## Languages



## Tools

**Apps:** Android Studio, React Native

**IDE:** VS Code, Eclipse

**Virtualization:** VM, WSL

**Database:** PostgreSQL, SQLite

**Document:** OverLeaf, Microsoft Office, Google Docs

## Courseworks

1. Data Structures
2. Algorithms
3. Software Development Process
4. Database I & II
5. Mobile Systems and Apps
6. Testing, QA, and Maintenance
7. Machine Learning Fundamentals
8. Embedded Systems
9. Operating Systems
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 to improve arithmetic skills
- Utilized multithreading and shared preferences
- Published the app on the Google Play Store

**Course Assistant** (Spring 2023 - Spring 2024)

- Assisted in coordinating database and app development 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