Noah Lee

Contact

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Education

University of California, Berkeley
GPA 3.730

Relevant Coursework

CS 61A: Programming basics
CS 61B: Data structures
CS 61C: Computer architecture
CS170: Algorithms
CS186: Databases
EECS 16A/B: Lin. Alg. / Circuits
EE 105: Analog Circuits
Math 110: Linear Algebra
CS170: Algorithms
CS186: Databases
CS 70: Discrete Math / Probability
Math 104: Real Analysis
CS162: Operating Systems
EE105: Analog circuits
Math 116: Cryptography
Math 113: Abstract Algebra

Skills

Programming: Python, Java, JavaScript, C, HTML5, CSS, SQL
Databases: MongoDB

Projects

Website Side Project | Full stack development
- Designed and implemented a full stack web app on node.js with MongoDB integration using the MVC model to organize interactions between the front end, server, and database.

Voice Controlled Car | Closed-Loop System, PCA
- Constructed a voice-controlled car which used PCA to process and identify commands and implanted closed loop control.
- Entered a group competition for making a video about modifications and got first place. (https://youtu.be/D11Ll2AISE4)

CS186 Database Project | Java, Database management systems
- Implemented parts of a database that handled resource locking, user operations, and B+ tree management

PINTOS | C, Intex x86, Operating System
- Created an operating system to handle basic multiprocessing and multithreading.

Gitlet | Java, Version Control
- Implemented a version of git from scratch by applying concepts from data structures and class interactions.

RSA Crypto System | Python, Cryptography
- Implemented a fully functional RSA crypto-system from scratch

LOA | Java, Game Tree, Alpha-Beta Search, AI, GUI, Heuristics
- Implemented a game with a functioning GUI along with an AI that played based on Game Trees and Alpha-Beta.

Work Experience

June 2020 – Present
Academic Student Employee for EE16A/B
- Helped facilitate labs, coordinated with staff members and learned to work as a team.
- As of January 2022, I was promoted to a lab TA.

May – June 2020
Full stack developer
- Headed the development of a website from scratch.
- I was heavily involved with the workflow of development.

June – August 2018
Intern • Fulltime researcher • California State University, Fullerton
- Collaborated on and presented a research paper with peers.
- Data processing and with Python and Excel.