Nick Pavlosky

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SKILLS

- **Languages**: JavaScript, TypeScript, C/C++, Python, Java
- **Web Frameworks**: Node.js, ReactJS, Firebase, ExpressJS, socket.io, Tailwind CSS
- **Tools**: Git, Heroku, fly.io
- **Hardware**: Arduino, Bluetooth Low Energy

PROJECTS

Computer Science Makeover · https://cs-makeover.fly.dev September 2022
- Express.js server that fetches, modifies, and serves websites for 5+ UCLA courses, deployed using fly.io
- Beautifies course web pages with CSS and adds copy-to-clipboard feature to code blocks using jQuery

Multiplayer Mancala App · https://neekthegiraffe.github.io/mancala-stars/ July 2022 - August 2022
- Online multiplayer version of the Mancala board game with secure, responsive server using ExpressJS and socket.io
- Created simple backend server CD pipeline using Git and Heroku

Multiplayer Blackjack App · https://neekthegiraffe.github.io/card-games/ May 2022 - July 2022
- Singleplayer or multiplayer Blackjack game that saves results of each game to a persistent Firebase database
- Social features such as Google authentication, global chat, searchable user profiles, and a follower system
- Developed clean single-page application using ReactJS and Tailwind CSS

Tier List Maker · https://neekthegiraffe.github.io/tier-list-maker/ February 2022 - July 2022
- App that accepts URLs or a directory of images and allows the user to sort them into tiers
- Created original desktop app in Java and ported to web version using p5.js

EDUCATION

University of California, Los Angeles · *Los Angeles, CA* Expected June 2024
BS · Computer Science
- **GPA**: 4.0 / 4.0
- **Completed Coursework**: Data Structures & Algorithms, Software Construction, Computer Architecture
- **In-progress Coursework**: Discrete Math, Operating Systems

EXPERIENCE

Biomedical Engineering Society at UCLA · *Arduino & React Native Developer* September 2021 - June 2022
- Designed therapeutic glove with 11 other engineering students to correct movement of patients with movement disorders
- Created a companion app using React Native with 2 other developers, writing tutorials for non-developer team members to access app prototypes
- Connected glove to app using Arduino & Bluetooth Low Energy, forming a live data stream for app minigames

Arduino Engineer September 2020 - June 2021
- Built a pulse oximeter circuit using Arduino and graphed pulse using a Java framework
- Presented technical differences between using IR and visible photodiodes with 2 other engineering students
- Modeled a handheld pulse oximeter device using Autodesk Fusion360 and designed a PCB layout using Eagle

Learning Assistant Program at UCLA · *Chemistry Tutor* September 2021 - December 2021
- Fostered collaboration between 50+ students in general chemistry course over 10 weeks
- Created own final review worksheet with 6 exam-like questions and solution set to improve student preparedness
- Collaborated with 12 other tutors, TAs & professor to communicate feedback from students and improve pedagogy strategies, such as encouraging growth mindset

AWARDS

Best Overall Project & Best Presentation · *BioHack at UCLA* April 2021
- Conceptualized a mobile app that accounts for skin tone bias in pulse oximeters with 3 other engineering students
- Created dummy app demonstrating user progression using JavaScript