

Amitoj Singh

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EDUCATION

University of California, Berkeley

Class of 2026

B.S Electrical Engineering & Computer Science

Relevant Courses: The Structure and Interpretation of Computer Programs, Designing Information Devices and Systems I, Linear Algebra, Multivariable Calculus, Data Structures, Economics, Designing Information Devices and Systems II

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, HTML, CSS, Swift, SQL

Skills: AngularJS, NodeJS, Ionic, MATLAB, Pandas, MongoDB, OOP, APIs, Microsoft Excel

PROFESSIONAL EXPERIENCE

Lantronix Inc | Digital Marketing Intern

Irvine, CA | July 2021 – August 2021

- Built product landing web pages via JavaScript, HTML, and CSS for the Marketing and Communication team to increase customer outreach and retention levels by embedding better UI/UX design
- Collected and aggregated data points to MYSQL for target customers' product use cases

RecycleMamba LLC | Founder, Core Developer

Irvine, CA | June 2021 – Present

- Utilizing Ionic and AngularJS for frontend and backend development of iOS and Android App that incentivizes users to recycle by awarding points which can be used to buy prizes
- Gained 6 businesses sponsoring the app with a subscription of \$20/month and has 100+ active users
- Uploaded the app onto the Apple App Store and Google Play Store and is available to US, India, Ireland, and Canada

EpicDebate (Non-Profit) | Founder, Frontend Developer

Irvine, CA | Jan 2021 – Present

- Created a website, epicdebater.com, using WordPress, to provide debate coaching to a clientele of 60 debaters
- Donated \$1500+ profit to KidWorks, an organization oriented around creating equity in impoverished areas in Orange County, specifically Santa Ana

PROJECTS

Multi-Pixel Imaging Sensor

- Created an imaging sensor using a circuit which includes an ambient light sensor and projector which scans an existing image in multiple places at a time to reduce the noise and outliers in the sensor, generating a more accurate picture
- Utilized Energia, an integrated development environment (IDE), to create algorithms to read and leverage linear algebra concepts such as the Hadamard matrix and the Eigenvalue Theory to recreate the image

Ants Vs. SomeBees Project

- Recreated the game "Plants Vs. Zombies" in Python using Object Oriented Programming allowing the bundling of local state and behavior to abstract complexity
- Created classes such as GameState, Insect, Ant, and Bee which communicate with each other to share behavior among other objects and inherit characteristics from related types

Automated pH Sensor for Aquaponics Systems

- Built a new version of pH monitoring strips with the "pH Sensor and Alarm for Smart Aquaponics System" using Arduino to create a constant monitoring of pH levels of aquaponics systems
- Created a ringer using a mix of C and C++ that goes off if pH levels reach toxic and unstable conditions

EXTRACURRICULARS

Berkeley PBL – Future Business Leaders of America | Technology Analyst

- Collaborating weekly with club analysts to learn Python, Pandas, and R, skills pertinent to understanding the intersection of the technology and business industries, and applying the languages in developing consulting strategies for startups to large companies in the technology sector

Associated Students of the University of California | Technology, Innovation, Engineering Department Coordinator

- Spearheading events like the engineering alumni event to connect students with alumni in the engineering industry
- Engaging in discussions to create policy solutions such as starting a 501(c) organization to handle the EECS funding crisis, creating a more inclusive community at Berkeley with accessible resources, enriching educational experience.