Ethan Escat

U.S. Citizen | Brentwood, CA | ethan_escat@berkeley.edu | (510)-283-4205 | Portfolio | LinkedIn | GitHub

EDUCATION

University of California, Berkeley | Berkeley, CA Expected Graduation: **December 2026**
Bachelor of Science in Electrical Engineering and Computer Science

Diablo Valley College | Pleasant Hill, CA Cumulative GPA: 4.00
Associate of Science, Computer Science Jun 2022 - May 2024

Los Medanos College | Pittsburg, CA Cumulative GPA: 4.00
Associate of Science, Mathematics Aug 2022 - May 2024

Relevant Courses: Structure & Interpretation of Computer Programs (Python, SQL), Data Structures (Java), Assembly Language Programming (Assembly), Advanced Programming with C and C++, Discrete Math and Probability, Circuits and Devices

WORK EXPERIENCE

Los Medanos College **Pittsburgh, CA**
Mathematics Tutor Nov 2022 - May 2023

- Delivered tailored tutoring sessions to 15+ students weekly, improving academic performance by an average of 20%
- Taught Algebra, Calculus (I-III), and Linear Algebra with a 90% student satisfaction rate
- Designed personalized lesson plans and study strategies, helping students improve by at least one letter grade

PROJECTS

EtherPrint - Custom Shirt Maker | Demo | GitHub | React JS, Three JS, OpenAI, Node JS Aug 2023 - Sep 2023

- Developed an interactive 3D web application enabling users to customize t-shirt designs in real-time
- Integrated image upload features and AI-generated design suggestions based on user prompts
- Enabled users to download their designs, driving engagement with a seamless user experience

Ethernet - Social Media App | Demo | GitHub | React JS, Appwrite, Tailwind CSS, TypeScript Nov 2024 - Dec 2024

- Built a full-stack social media app featuring secure authentication for user accounts
- Designed core features including post creation/editing, user profiles, and interactive features (likes/saves)
- Optimized data-fetching performance using React Query and integrated Appwrite backend, enhancing app stability

NBA MVP Predictor | GitHub | Jupyter Notebook, Python, Machine Learning Dec 2024 - Jan 2025

- Engineered a machine learning model to predict NBA MVPs using 30+ seasons of data and 20+ player statistics.
- Achieved 80%+ prediction accuracy through Random Forest and other algorithms
- Built a scalable data pipeline to scrape, process, and analyze player performance metrics

ACTIVITIES & LEADERSHIP

Pilipinx Association of Scientists Architects & Engineers (PASAE) **Berkeley, CA**
Transfer Rep Intern Sep 2024 - Present

- Assisted in organizing socials and resource events, benefiting 50+ transfer STEM students
- Enhanced the transfer resource page with academic opportunities and networking resources
- Helped manage events to integrate transfer students into the Berkeley STEM community

Open Project (Computer Science Club) **Berkeley, CA**
Technical Team Member Sep 2024 - Dec 2024

- Engineered a Spotify playlist analyzer using Python and the Spotify API
- Extracted 6 data points per song, including genre, album, duration, danceability, energy, and tempo
- Puts each song and data point into an organized spreadsheet for easy access to the information

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, SQL, C/C++, HTML/CSS
Frameworks & Libraries: React, Node.js, Three.js, Tailwind CSS
Developer Tools: Git, VS Code, PyCharm, Jupyter Notebooks, MongoDB, Arduino
Applications: DaVinci Resolve, Microsoft Office 365, Adobe Photoshop