ERIC LY

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Education

California State University, Fullerton **Expected: May 2025**
B.S. Computer Science | Minor in Economics
Coursework:

- **Computer Science:** Data Structures | Computer Security | Software Engineering | Operating System Concepts | Algorithmic Engineering | Artificial Intelligence | Machine Learning | File Structures and Database Systems
- **Economics:** Intermediate Macro/Microeconomics | Economic Research | Business Communication/Analytics

Skills

Software	HTML/CSS, Javascript, C++, Java, Python
Frontend/Backend	React, React Native, NodeJS, **Firebase**, MySQL, Django, P5.js, D3.js, Bootstrap/SASS
Machine Learning	TensorFlow, PyTorch, Scikit-learn
Developer Tools	Git/Github, Jupyter Notebook, Matplotlib, NumPy, Graphviz, Figma, Adobe Photoshop/Illustrator

Experience

Quantitative Researcher June 2023 – August 2023
CIC-PCUBED, Summer Research Project

- Conducted data-driven research on pairs trading strategies with university professors and student researchers
- Utilized a selected financial dataset and employing statistical models and algorithmic analysis to optimize performance

Artificial Intelligence Researcher May 2023 – July 2023
ASSURE-US, Summer Undergraduate Research Experience

- Leveraged genetic programming with symbolic regression, to discover optimal mathematical expressions
- Applied GP algorithms using ML libraries: Sci-kit learn and Jupyter Notebook, to simulate evolving agents and approaches
- Created informative 3D graphs to illustrate complex relationships, and presented findings to researchers and professors

Mobile App Instructor Feb 2023 – May 2023
Dream for Schools, AppJam+

- Taught AppJam+ with co-instructors, to guide 14 students in technical processes of mobile application development
- Empowered students' technical and teamwork skills, culminating in a showcase to school boards, parents, and companies

CSSI Participant July 2022 – Aug. 2022
Google, Computer Science Summer Institute

- Completed 16 project-based HTML/CSS, JavaScript, and API curriculums, taught by Google engineers
- Presented Funtime Trivia and Quizzes, a gamified-educational site, leveraging JS & apis, to 80+ audience members

Student Engineer & Social Platform Manager Sept. 2021 – May 2022
Google, Code Next Connect

- Collaborated with CodeNext engineers to build and present interactive web-pages, games, and music
- Integrated a reactions-based roles, logging securities, and event announcements for 250+ student and staff members

Projects

Spicy Swipes - CSUF Opinion-Sharing Platform

- Created a full-stack app with real-time database, authentication, anonymous posting, post ratings, and discussions

Anh Chi Em Vines - VSA's Family Ancestry Visualizer vsa-ace-vines.vercel.app/

- Contrived a web application utilizing React, D3.js, and Vercel, to visualize VSA members' ancestry lines

Projectile Poopers - Cross-Platform, Multiplayer Game summer-grame.vercel.app/

- Created a full-stack web app using React, Firebase, and Vercel, for use between computers, phones, and wearables
- Included features like user authentication, movement controls, backward projectiles, exchangeable coins, and respawning

Hoa Viet Market - Small Business Website | Snap Academies Engineering la-business-project.netlify.app/

- Engineered a business website– integrating contact pages, operating hours, accommodations, public photos, and maps

Leadership

- **Treasurer, Association of Computing Machinery** - Largest CSUF club for Computer Science & Engineering students
- **1st Place Team (CA-District 46), Congressional Challenge App** - Nationwide app development competition
- **Senate Recognition Award (Josh Newman), Dreams for Schools** - Recognition for STEM mentorships of youths