

# ERIC LY

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## EDUCATION

### California State University, Fullerton

Expected: May 2025

B.S. in Computer Science | Minor in Economics

- **Relevant Courses:** Object-Oriented Programming, Data Structures, Algorithmic Engineering, Software Engineering, Operating Systems, File Structures & Database Systems, Computer Security, Artificial Intelligence, Machine Learning
- **Extracurriculars:** Association of Computing Machinery, Intercollegiate Programming Club, Vietnamese Student Association

## SKILLS

<b>Software</b>	HTML/CSS, Javascript, C++, Java, Python
<b>Frontend/Backend</b>	React, NodeJS, <b>Firestore</b> , MySQL, Django, Bootstrap/SCSS
<b>Machine Learning</b>	TensorFlow, PyTorch, Scikit-learn
<b>Developer Tools</b>	Git/Github, Visual Studio, Jupyter Notebook, Matplotlib, NumPy, Graphviz, Figma
<b>Certifications</b>	CodePath Certificate in <b>Advanced</b> Web Development

## EXPERIENCE

### Quantitative Researcher

CIC-PCUBED

June 2023 – Aug 2023

- 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

ASSURE-US

May 2023 – Jul 2023

- 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

Dream for Schools

Feb 2023 – May 2023

- 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

Google, CSSI

Jul 2022 – Aug 2022

- Collaborated with Google engineers to build 16 project-based HTML/CSS, JavaScript, and API curriculums
- Worked with software engineering students to build [FunTime Trivia and Quizzes](#), a educational site for curious students

### Student Engineer

Google, Code Next Connect

Sep 2021 – May 2022

- 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

**Personal Site:** [www.lyyeric.tech/](http://www.lyyeric.tech/) (for more software projects and information)

### Penny Power Plays | Multiplayer Strategy Game | [View App](#)

- Utilized ReactJS and Firebase to feature contribution mechanics and player authentication for an immersive experience
- Included real-time data manipulation and heart management, resulting in heightened player engagement
- Leveraged SCSS to enhance the game's user interface– providing a visually appealing gaming environment

### Projectile Poopers | Cross-Platform, Multiplayer Game | [View App](#)

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

### Hoa Viet Market | Business Website for Snapchat Academies | [View App](#)

- Engineered a front-end web app, using ReactJS, HTML/CSS, AOS.js, and Netlify, for Snap Academies Engineering
- Included features like contact pages, operating hours, accommodations, public photos, and mapping navigations

## LEADERSHIP & AWARDS

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