ERIC LY

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EDUCATION

California State University, Fullerton   **Expected: May 2025**
Bachelors of Science in Computer Science | Minor in Economics
- **Awards:** 2nd Place HackMIT (2023), STEM Mentorship Senate Award (2023), 1st Place Congressional App Challenge (2022)

SKILLS

Languages	HTML/CSS, JavaScript, C++, Java, Python, R
Frontend/Backend	ReactJS, NodeJS, ExpressJS, Firebase, Flask, NoSQL, Bulma/SCSS, APIs, WebSockets
Developer Tools	Git, Github, OpenAI, TensorFlow, PyTorch, Scikit-learn, Matplotlib, NumPy

EXPERIENCE

Mobile App Instructor | Dream for Schools, AppJam → Coding Games w/ Scratch   **Feb 2023 – Present**
- Taught AppJam+ with co-instructors, to guide 25+ students in technical processes of mobile application development
- Empowered students to enhance programming and teamwork skills during 20+ weeks of teaching sessions
- Advised students towards winning presentations to showcase to 80+ parents, school boards, founders, and non-profits orgs

Quantitative Research Intern | CIC-PCUBED   **Jun 2023 – Aug 2023**
- Worked under Dr. Bein to conduct data-driven research on pairs trading strategies, and presented to 20+ student researchers
- Utilized Yahoo financial datasets and employed statistical models and algorithmic analysis to optimize trading performance

Artificial Intelligence Research Intern | ASSURE-US   **May 2023 – Jul 2023**
- Worked with Dr. Han to leverage symbolic regression via genetic programming, to discover optimal expressions for 3D shapes
- 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 50+ researchers and professors

Student Engineer | Google, Code Next Connect → CSSI   **Sep 2021– Aug 2022**
- Selected to attend Google's developmental workshops, and learnt HTML, CSS, JavaScript, Python, and APIs
- Collaborated with 15+ Code Next engineers to build & present 25+ interactive web-pages, games, and music
- Co-moderated the community, and integrated roles, logging securities, and announcements for 650+ student & staff members
- Led a team of 2 CSSI students to build a final web project: Funtime Trivia and Quizzes, an educational site for teenagers

LEADERSHIP

Treasurer & FullyHacks Finance Lead | Association of Computing Machinery at CSUF   **May 2023 – Present**
- Liaised with ACM leaders, faculty advisors, and Googlers, to advance expansionary initiatives and educational events
- Negotiated for $4,600+ from the CS department and ECS–ICC, resulting in greater accommodations & member participation
- Organized fundraisers with local businesses to support ACM expenditures in refreshments, technologies, and merchandise

PROJECTS

Personal Site: www.lyyeric.tech/

FireNet | HackMIT Fire-Identification & Evacuation Project | *HTML/CSS, ReactJS, APIs, WebSockets* | View Project
- Built a server system to subscribe to the MQTT network, in order to read & send messages via WebSockets to the HTTP client
- Located the user via HTML's geolocation, and displayed sensors' temperature, humidity, flame levels, danger-level near area
- Leveraged Google Maps' API to map user's location, and to route user to safer locations away from danger & warning circles

Penny Power Plays | Multiplayer Strategy Game | *HTML/CSS, ReactJS, Firebase* | View App
- Utilized ReactJS and Firebase to feature contribution mechanics and player authentication for an immersive experience
- Automated currency manipulation, heart management, and mathematical processes, to challenge players' strategic thinking

Projectile Poopers | Cross-Platform, Multiplayer Game | *HTML/CSS, ReactJS, Firebase* | View App
- Created a full-stack web app using React, Firebase, and Vercel, for use between computers, phones, and wearables
- Implemented user authentication, movement controls, backward projectiles, exchangeable coins, and respawning

AFFILIATIONS & INTERESTS

- **Affiliations:** HeadStart Fellow (2023), 1st Place Better Business Bureau Torch Finalist (2022)
- **Interests:** Multi-media museums, ice-skating, competitive programming, industrial economics, video essays