

ERIC LY

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EDUCATION

California State University, Fullerton

Aug 2022 – May 2026

Bachelors of Science in Computer Science | Minor in Economics

- **Victories** @ Cerebrals Hacks 2024, AT&T Innovation Challenge 2024, HackMIT 2023, Congressional App Challenge 2023

SKILLS

Languages: (Proficient) C++, Python, JavaScript, CSS, HTML (Familiar) Java, R, SQL, C#, Q#

Web Development: React, Express, Node, FastAPI, Flask, CORS, MongoDB, Firebase

Platforms & Tooling: Git, Linux, Azure Cloud, GCP, Docker, Kubernetes, CI/CD, Swagger, Googling

AI/ML: OpenAI, Whisper, OpenVoice, CrewAI, PyTorch, SKLearn, NumPy, Pandas, Matplotlib

EXPERIENCE

Software Engineer Fellow | ECS Innovation Launchpad | Fullerton, CA

Sept 2024 – Dec 2024

- Led a team of 5 to develop AI-driven economic simulations, modeling human-like behavior in response to changing policies.
- Deployed reinforcement learning models to enable agents to adapt to policy shifts and visualize their impact on the economy.
- Improved agents' adaptability by leveraging **neural networks**, enhancing decision-making in dynamic econ environments.

Software Engineer Intern | AT&T Inc. | Dallas, TX

June 2024 – Aug 2024

- Facilitated multilingual ASR, transcription, and translation, by researching LLM & speech models from **OpenAI** and **MyShell**.
- Enabled speech services team full control over STT workflows, by developing endpoints to replace reliance on NVIDIA Riva.
- Built REST APIs for multilingual speech services using **Python, FastAPI, ReactJS, CORS, Postman**, and **Docker** on Linux VMs.
- Improved **>40x TTS latency**, by deploying services on Azure Kubernetes– automating containerization and leveraging GPUs.
- Achieved **1st place of 19 intern teams** with live demo of MVP to top technology executives during TDP Innovation Challenge.

Mobile App Instructor | Dream for Schools | Westminster, CA

Feb 2023 – Dec 2023

- Taught AppJam+ & Scratch with colleagues, to guide **>45 students** in agile and technical processes of software development.
- Equipped students with programming skills and data structures knowledge, by facilitating >20 weeks of interactive sessions.
- Advised students towards winning presentations to showcase to **>80 parents, school boards, and non-profits orgs**.

Artificial Intelligence Research Intern | ASSURE-US | Fullerton, CA

May 2023 – July 2023

- Generated math formulas for complex 3D shapes using a symbolic regression model, developed with genetic programming.
- Applied natural selection, crossovers, and mutations to evolve optimal expressions, using **Python, PyTorch**, and **Matplotlib**.
- Derived accurate math formulas for complex 3D shapes (ex: hyperbolic paraboloid)– enhancing accuracy of shape modeling.

PROJECTS (More on lyyeri.tech/ !)

Consilia | LA Hacks Activities Recommendation App

[View Project](#)

- Coordinates compatible activities among users by analyzing preferences and locations for personalized recommendations.
- Utilized **React** and **Node.js** for user-friendly interface, **Gemini Pro** and **MongoDB** for data processing and API integration.

FireNet | HackMIT IoT Wildfire Detection and Evacuation System

[View Project](#)

- Won **2nd place** by providing users with evacuation routes– using live sensor updates to enhance safety and decision-making.
- Leveraged **MQTT, WebSockets**, and **HTML geolocation** to process sensors' data– showing temp., humidity, and threat zones.

LEADERSHIP

Node Buds, AI, and Fully Hacks Co-Director | Association for Computing Machinery

Aug 2023 – May 2024

- Advanced >20 workshops– impacting **>300 students** via enhanced technical skills and fostering community engagement.
- Led the finance for Fully Hacks 2024– handling **>\$4500** in sponsorships and logistical accounting, for **>230 student hackers**.

Student Engineer | Google Code Next Connect & CSSI

Sept 2021 – Aug 2022

- Collaborated with >15 Code Next engineers to build & present **>25 interactive web-pages, games, and music**.
- Moderated the community by integrated roles, logging securities, and announcements for **>650 student & staff members**.