

15730 Beach Dr NE
Lake Forest Park, WA

Erik Luu

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Employment Experience

Cylerian LLC **Software Engineer, Intern** **June 2022 – October 2022**

- Developed a one-click marketplace application for analyzing and visualizing Google Cloud projects using scheduled tasks, REST APIs and model statistics, created interactive dashboards, reports, and relational graphs.
- Technologies: NodeJS, Google Cloud Platform, AWS, MDX, Elasticsearch

Search and Rescue – Cal Poly **Research Assistant** **January 2022 – June 2022**

- Led a team to organize and index national and California state search and rescue forms, creating an electronic platform for storage and sharing. Wrote scripts to structure fields for easy readability and comparability.
- Technologies: NodeJS, Pandas

DamageMap – Cal Poly **Research Assistant** **March 2022 – June 2022**

- Participated in DamageMap research project, utilizing drone and satellite imagery to assess wildfire damage on residential properties and classify levels of destruction.
- Contributed to the development and improvement of the neural network-based algorithm through testing and data analysis.
- Technologies: Python, PyTorch, ArcGIS

Sheridan Beach Club **Senior Lifeguard** **Summers 2016 – 2021**

- Provided pool monitoring, rescue, customer service, and led safety instructional sessions.
- Managed staff and pool upkeep.

Education

California Polytechnic State University **San Luis Obispo, CA**

- M.S. in Computer Science, June 2024
- B.S. in Computer Science, June 2023 (anticipated): GPA: 3.4
- Coursework: Knowledge Based Systems; Operating Systems; Systems Programming; Computer Vision; Programming Languages; Applied Linear Models; Data Science; Algorithms; Data Structures

Projects

- **Quantifying Happiness** (Winter 2022): Conducted data analysis on world happiness and its parameters, using methods such as cross-tabulation, linear and KNN regressions, and built a model that predicted scores with an R2 of 0.7 using *The World Happiness Report*. Read my [report](#) on GitHub.
- **Zurf** (Winter 2022): A social platform to view, share, and explore surf spots in SLO County.
- **Pokémon Game** (Fall 2019): Designed and built a [custom Pokémon game](#) as an intro to coding.

Additional Experience and Awards

- **NCAA Division I Cross Country and Track Athlete** (Fall 2019 – Present)
- **Central Coast Data Science Fellowship** (Fall 2022 – Present): Implementing clustering methods in R package 'tidymodels' along with local outreach activities, including tutoring and high school talks on Data Science.

Languages and Technologies

- Python, C, JavaScript, Java, SQL, R, Bash, MATLAB, Racket
- NodeJS, Pandas, SciKit-Learn, UNIX, PyTorch, React, Google Cloud Platform, AWS, MongoDB