

Leyna Nguyen

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EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE

Irvine, CA

Bachelor of Science in Computer Science

Sept. 2023 – Dec. 2025

Relevant Coursework: Advanced Data Structures in C++, Principles in System Design, Project in Databases

TECHNICAL SKILLS

Programming languages: HTML, CSS, Java, JavaScript, C++, C, MIPSzy, SQL, R

Tools/Frameworks: Git, Catch2, NPM, JDBC, MySQL, Tomcat, RESTful APIs, jQuery, Apache, AWS, jMeter, reCAPTCHA

PROJECTS/COURSEWORK

AXON REGENERATION CLASSIFIER

- Worked directly with Dr. Hinman at UCLA's Hinman lab in order to screen both numerical and image data to find which drugs were axon-regenerative and which weren't
- Worked with a RegenOrNoRegen, Seurat, and Garnett R packages to create a regeneration classifier with RNA-seq data
- Ran microscope images from mouse cortical neurons through NeuroQuantify to trace neurite length and classify drugs
- Combined results from both classifiers in order to find a regeneration index telling us which drugs were regenerative

FABLIX MOVIE DATABASE WEB APP

- Built full stack architecture from scratch. Setup AWS instance, MySQL, Tomcat, imported a large database of movie information, and created a new Github repository
- Implemented a large frontend using javascript, jQuery, and ajax
- Developed an ETL pipeline to parse large XML files to augment the already large database.
- Comprised ~20 medium features, e.g., fully functional website that displays a catalog of 1000s of movies, cart checkout backed by sessions, secure login using SHA256 hashing and sessions, full-text search and auto-complete backed by a cache, bot detection using reCAPTCHA, protection against SQL injection attacks via PreparedStatements, etc.
- Improved website performance XX% by implementing optimizations including: MySQL connection pooling, MySQL replication, Apache load balancing
- Deployed Containerized version of the project on a Kubernetes cluster spanning multiple AWS instances

MY CHEF JEFF

- Created a Google Gemini AI wrapper for hackathon that takes user input on recipe, meal plan, and budgeting ideas for students

PERSONAL WEBSITE

- Designed and implemented static website in VS Code using CSS, JavaScript and React
- Acquired knowledge and experience in JavaScript, React, and Node Package Manager

WORK EXPERIENCE

BREAK THROUGH TECH AI FELLOW

Irvine, CA

University of California, Los Angeles

Mar. 2024 – Present

- Enrolled in 18-month program to master critical skills in data science, machine learning, and artificial intelligence
- Partaking in a rigorous summer ML Engineering curriculum developed by industry and academic leaders
- Gaining proficiency in constructing data analysis pipelines, training ML models, and mastering ML/AI libraries
- Learned industry-relevant tools such as Jupyter Notebooks, NumPy, and Pandas

LEARNING ASSISTANT

Irvine, CA

University of California, Irvine

Jan. 2024 – Present

ICS 53 - Principles in System Design in C / ICS 46 - Data Structures & Algorithms in C++

- Assist students by guiding them through projects involving the development of a simple shell in C, dynamic memory allocator, and multithreading using GDB
- Instruct students on the principles and application of multiprocesses, multithreading, POSIX system calls, concurrency, and other relevant topics in system design using C
- Guided lectures on advanced Data Structures & Algorithms, emphasizing high-level concepts like trees, graphs, and complex algorithms

ADDITIONAL

Certifications & Training: Cornell University Machine Learning Foundation, NMLS, CPR, First Aid/AED

Activities: Top 10 National CelebratingArt Competition (2013), Biked 800 miles through Oregon/Washington (2021)