

Zuleyka Urieta

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EDUCATION

Chapman University

Orange, CA

Bachelor of Science in Software Engineering, minor in Neuroscience | GPA: 3.7

Aug 2022 - May 2025

- **Relevant Coursework:** Data Structures and Algorithms, Software Development Lifecycle, Software Design, Software Requirements and Testing, Operating Systems, Database Management, Unix/Linux, Data Science, iOS Development, Website Development, Object Oriented Programming (Java), Agile Development, Human Factors, Human Computer Interaction, Python
- **Leadership Roles and Affiliations:** Society of Women Engineers (Secretary), Fowler School of Engineering Leadership Council (Founder), Hispanic Scholarship Fund (Scholar Alumna), Breakthrough Tech AI (Fellow), Society of Hispanic Professional Engineers, Girls Who Code, Codepath, ColorStack, Rewriting The Code

Cornell University

New York, NY

Break Through Tech AI/ML at Cornell Tech

August 2024

- Machine Learning Foundations e-Certificate

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, JavaScript, Swift, SQL, NoSQL, TypeScript

Developer Tools: Jira, GitHub, Git, Docker, IntelliJ, Figma, XCode, Arduino, HTML5/CSS3, Fusion 360, Maven, AWS, Jupyter Notebook

Frameworks: Swagger, React, Spring Boot, Keras, PyTorch, MySQL

Libraries: Pandas, Numpy, Matplotlib, Scikit-learn, Seaborn, TensorFlow, React, Jacoco

PROFESSIONAL EXPERIENCE

Fowler School of Engineering at Chapman University

Orange, CA

Fabrication and Manufacturing Makerspace Lab Assistant

August 2025 - Present

- Lead the development of makerspace training programs, safety standards, and operational policies, while training **8** student workers
- Support students and faculty with course projects, engineering extracurriculars, research, and hands-on makerspace operations, including equipment troubleshooting and preventive maintenance
- Analyze makerspace and equipment usage data and create detailed visualizations to drive data-informed budgeting decisions

Fabrication and Manufacturing Makerspace Lab Student Lead

August 2022 - May 2025

- Taught **250+** students how to use a wide range of lab equipment, including 3D printers, CNC mills, laser cutters, circuit design tools, and more, empowering them to tackle both personal and academic projects effectively
- Mentored **6** student workers in equipment operation and maintenance, empowering them to independently oversee fabrication lab activities

Break Through Tech AI at UCLA

Los Angeles, CA

Artificial Intelligence and Machine Learning Fellow

May 2024 - May 2025

- Implemented regression via ensemble modeling, computer vision, natural language processing tasks, and convolutional neural networks with final testing accuracies of **85%+** using TensorFlow and Scikit-Learn libraries
- Chosen as **1 of 200** students from over **3,000** applicants to participate in a highly competitive **12-month** program hosted at UCLA

Bloomberg x ColorStack Open-Source Mentorship Program

Remote

Technical Mentee

February 2025 - March 2025

- Participated in a selective mentorship program pairing ColorStack members with Bloomberg engineers for weekly 1:1 coding sessions
- Contributed to ColorStack's open-source software by completing a full-stack issue concerning SQL queries to allow students to efficiently filter for open internship opportunities, ultimately improving the user experience of **10,000+** members

Level Data

Kalamazoo, MI

Artificial Intelligence Studio Intern

August 2024 - December 2024

- Applied supervised learning to analyze proficiency levels across students by clustering **80,000+** anonymized records from K-12 datasets
- Impacted **7,000,000+** students in collaboration with Level Data to provide **1,800+** school districts with real-time access to student information to facilitate data-driven decision-making across schools located across **17** states

CHOC: Children's Hospital of Orange County

Orange, CA

Medical Intelligence and Innovation Institute Intern

January 2021 - May 2021

PROJECTS

Striking Vipers | Python, JavaScript, HTML/CSS, AWS, SQLite, Swagger [<https://github.com/zulvu/Striking-Vipers>]

May 2025

- Developed and deployed a web-based educational video game on AWS to teach Python to low-income middle school students
- Built a RESTful API with Swagger documentation, integrated a SQLite database, and implemented user authentication
- Wrote unit and integration tests with high code coverage to ensure software reliability, maintainability, and quality

Sex & ADHD Prediction | Python, Pandas, Numpy, Seaborn, Scikit-learn [<https://github.com/WiDSTeam15/Kaggle>]

March 2025

- Built Neural Network and Logistic Regression models to predict ADHD and sex from brain imaging and socio-demographic data
- Optimized Neural Network hyperparameters (layers, learning rate, batch size) to achieve **72%** accuracy, outperforming traditional models

Book Review Sentiment Analysis Binary Classifier | Python, Jupyter Notebook, Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn

January 2025

- Built Neural Network and Logistic Regression models for sentiment classification of Amazon book reviews
- Performed text vectorization to convert the text from the reviews into numerical feature vectors to train the models

bookBuzz | Swift, Figma, Xcode [<https://www.zuleykaurieta.com/bookbuzz>, <https://github.com/zulyu/bookBuzz>]

December 2024

- Designed and created an iOS social media application for readers to make reviews and discover readers with similar genre interests
- Incorporated gesture (tap, swipe) features, SwiftUI, as well as an API library of popular books for users to interact with by searching

Smart Store | Java, Spring Boot, Swagger, SonarQube, Figma [<https://github.com/zulyu/Smart-Store>]

January 2024

- Created a grocery automation software system that made API calls to monitor and verify transactions, ensuring accurate order processing
- Optimized code quality using SonarQube to achieve **90%** code coverage and implemented unit testing for reliability
- Designed UML diagrams for system documentation and designed a mobile app in Figma for walk-out checkout