


# ELIAS ARGHAND

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## EXPERIENCE

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**Workday - Senior Associate Software Engineer, Distributed Systems** February 2023 - Present

- Maintain the lifecycle of tenants across multiple microservices to ensure efficiency and scalability.
- Developed a high-throughput tenant observability API in **Java** with **Redis**, handling 1000+ requests per minute.
- Reduced the manual effort and time of moving instances across **clusters** by developing the functionality for tenant instances to be **cloned** across different **clusters** and environments.
- Automated unit test reporting via **Python** that reduced report times by **95%** from 1 hour to 3 minutes.
- Leveraged **Java**, **Spring**, and **PostgreSQL** to build a microservice that provides data of thousands of tenants.
- Built a CI/CD pipeline using **Jenkins**, **Docker**, **Node**, and deployed on **AWS Elastic Kubernetes Service**.

**Workday - Software Development Engineering Intern** June 2022 - September 2022

- Led redesign of legacy internal tenant infrastructure management tool UI by leveraging **React**.
- Refactored back-end service from **Perl** to **Java** and rewrote database queries to prevent **SQL** vulnerabilities.
- Wrote a **REST API** in **Java** to gather thousands of rows of data for the frontend to consume.
- Converted **SQL** queries from **Oracle** to **PostgreSQL** and optimized data retrieval by restructuring queries.

**Workday - CodePath SITE FullStack Intern** June 2021 - August 2021

- Participated in a Full-Stack internship program as **1 of 25 interns** out of 974 applicants.
- Led design of organization rideshare application by leveraging **PostgreSQL**, **React**, **Heroku**, and **Node.js**
- Followed an **Agile** Development, designed mockups, databases, user models, and user stories.

**UC San Diego Computer Science Instructional Assistant** September 2022 - December 2022

- UC San Diego Computer Science Instructional Assistant for CSE 100: Advanced Data Structures.
- Held lab hours and debugged 500+ students' code in **C++** and assisted writing coding assignments.

**Learn2Code.Live Coding Instructor** August 2020 - March 2022

- Instructor at The Harker School and other schools throughout Silicon Valley to teach K-12 students programming in languages such as **Python**, **HTML/JavaScript**, **Java**, **C++**.
- Taught **Machine Learning** concepts such as **NLP** by leveraging **NLTK**, and **TextBlob**, **Sklearn**.

## EDUCATION

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**University Of California, San Diego** December 2022

- B.S. Computer Science and Engineering Major GPA: 3.7 Minor: Cognitive Science

## PROJECTS

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**Spotify Prediction Model** December 2022

- Built a **logistic regression** model using **Python** that predicts an artist given the characteristics of a track.
- Leveraged the **Spotify API** and **Musixmatch API** to gather data of over 200 tracks per artist across multiple artists.
- Achieved an accuracy of **73%** by training and testing using a **70/30** split and utilizing techniques such as **tokenization**.

**Presidential Bias Predictor - Ranked Top 5 in Class** December 2020

- Trained a **prediction model** on the **80/20** rule with **Gaussian Classifier** and **Naive Bayes** algorithm and tested to discern presidential biases of TikToks and generalize user base bias, resulting in an accuracy of **83%**.
- Leveraged the unofficial TikTok **API** and **Python** to scrape thousands of politically left and right-leaning TikToks.
- Applied model and received similar statistics of the actual election results amongst those under the age of 29.

## TECHNICAL SKILLS

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**Programming Languages:** Java, Python, C++, C, JavaScript, HTML, Kotlin, ARM, SQL  
**Frameworks/Other:** Distributed Systems, Jenkins, Unix, AWS, Google Cloud, Docker, Redis, Spring  
**Interests:** ACM: Association for Computing Machinery, IEEE, Codepath