Jimmy Jin

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EXPERIENCE

PANASONIC AVIONICS CORP. | Data Science Intern
Jun 2024 - Sep 2024 | Irvine, CA

- Engineered an end-to-end dashboard with **AWS Athena** and **QuickSight**, cutting query time by **8 hours** weekly.
- Developed a **Flutter** UI and implemented a movie recommendation engine with **PySpark** using ARL algorithms, increasing the probability of movie selection by **233%**.
- Consulted with other teams to create new POCs that involve the adoption of AI and ML throughout the company.

UCI MOBLEY LAB | Undergraduate Researcher
Nov 2024 – Present | Irvine, CA

- Cut Thompson Sampling warm up cycles runtime by **50%**, enhancing scalability for large chemical datasets.
- Rearchitected Jupyter notebooks into Python packages, improving code structure, maintainability, and efficiency.
- Utilized SLURM job scheduling with sbatch to ensure dependency-driven script execution and resource optimization.

IRVINE CHINESE IMMERSION ACADEMY | Technology Support Technician
Feb 2024 – Jun 2024 | Irvine, CA

- Troubleshooted different electronic devices to provide students and teachers necessary equipment.
- Facilitated communication between internal staff and external technicians to decrease broken device downtime.
- Maintained account permissions through Google admin and Office 365.

PROJECTS

J-MOVIE | Java, MySQL, AWS, Docker, Kubernetes
Mar 2024 – Jun 2024

- Developed a full stack project using **JDBC** and Java libraries to retrieve and update data from a **MySQL** database and HTML for a user-friendly interface.
- Launched the application through **AWS EC2 Ubuntu** instance with Tomcat guarded by custom security groups.
- Containerized the app with Docker and orchestrated the containers using Kubernetes k8 clusters to manage scaling, load balancing, and failover.

GOOGLE MOCK ENGINE | Flask, bs4, requests, threading
Mar 2023 - Jun 2023

- Tokenized 20,000+ web pages using various indexing methods and organized the data into JSON, ensuring query responses within **300ms**
- Developed a graphic interface with **Flask** to provide intuitive user interaction with the search engine.

EDUCATION

GRADUATE | MASTER'S
University of California Irvine

M.S Computer Science || Jun 2027

UNDERGRADUATE
University of California Irvine

B.S Computer Science || Dec 2024

- **Regent's Scholar** || 2020 - 2024
- **Dean's Honor List** || 2020 - 2022
GPA: 3.74

SKILLS

PROGRAMMING
Python • SQL
Java • JavaScript

TECHNOLOGY
Git/Github • AWS
React • Next.js • Node.js
Tailwind.css • Docker • Jira

SOFT
Teamwork • Initiative
Communication • Curiosity

COURSEWORK

Artificial Intelligence
Data Structures and Algorithms
Databases
Full-stack
Computer Networks
Operating Systems
Machine Learning + Data Mining

LINKS

Portfolio (WIP)
•www.jimfolio.xyz
Github
•github.com/jinjmmy
LinkedIn
•jimmy-jin-774ab7237/