Haaris Waleh

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Summary

Dedicated Machine Learning Engineer and Software Developer with experience in delivering exceptional technical projects. Adept at using critical thinking and technical skills to work with teams and clients to exceed expectations. Great communicator with a passion for innovating and continual improvement. Self-starter who can complete projects alone or with multi-disciplinary teams to complete projects within deadlines.

Skills

- **Languages/ Frameworks:** Python, PyTorch, TensorFlow, OpenAI Gym, MATLAB, R Studio, SQL, Java, C, C++, JavaScript, HTML, CSS, ARM/ x86/ MIPS Assembly, Bash Scripting, System Verilog, Jest, Cypress
- **Other:** NumPy, Pandas, Matplotlib, NLTK, sklearn, transformers, time series, reinforcement learning, Seaborn, Unix/ Linux, Git/ GitHub, VS Code, LaTex/ Overleaf, RESTful/ CRUD web services, GDB, Quartus, NodeJS, AWS, Valgrind, Google Colab, Jupyter Noterbook, Conda, Microsoft Office Suite, Zoom

Education/ Certifications

University of California, San Diego (UCSD). La Jolla, CA **June '22**
Bachelor of Science, Computer Science. Minor in Business GPA: 3.4

Relevant Coursework: Data Science in Practice, Intro to ML (Neural Networks), Deep Learning, Database System Principles, MATLAB Programming, Adv. Data Structures, Design and Analysis of Algorithms, Principles of OS, Software Engineering, Statistical Methods, Linear Algebra, Calculus 1-3

Awards and Clubs: Provost Honors, Association for Computing Machinery (ACM) AI and Cyber team member

Certifications: AWS Certified Cloud Solutions Architect **October 23- Present**

Work Experience

Freelance Data Scientist, Business Analytics. **April 2023-August 2023**

- Collected 10,000+ data points from multiple web sources using **Selenium** and performed EDA in **Python**.
- Performed **time series analysis** with **ARIMA**, **LSTM**, and **FB Prophet** models to predict product demand.
- Created reports for executives with project results and future feature plans.

Machine Learning Intern. *Bourbaki Group*. **June 2021-August 2021**

- Developed a machine learning tool with a team of 6 interns in **PyTorch** and **TensorFlow** on **AWS** instances that recognizes images of Organic chemical equations and predicts the results.
- Researched, tested, and adapted existing technology and literature to create a new model pipeline that achieved over 90% accuracy on test data.

Software Development Intern. *Creatorsoft*. **June 2020-September 2020**

- Built an application for automated accounting for large scale business use that increased efficiency and helped highlight budgeting issues.
- Programmed middle tier code in **NodeJS** including **RESTful/ CRUD** web services.
- Tested applications through testing scripts and performed quality assurance.

Projects

Real Time Text to Speech Translator. *Software Developer.* **March 2023–Present**

- Designing an Android and iOS application for real time text to speech translation across multiple languages in **React Native** and **Python**.
- Investigating **transformer** and **LLM** model architectures for translation.

Article Classifier. *Machine Learning Engineer.* **November 2022–January 2023**

- Constructed a topic modeler using **unsupervised learning** through the **NLTK** and **sklearn** libraries.
- Integrated this model into a **Python** app that classifies user input articles by topics.

Binary Image Segmentation. *Lead Python Developer.* ACM UCSD **April 2022-June 2022**

- Selected from 100+ applicants to implement a ML pipeline for binary image segmentation in **PyTorch**.
- Researched various state of the art ML models to compare results and determine the best approach.
- Coordinated development with a team of 4 peers on **GitHub**, including tutoring and code demos for teammates.
- Presented project results to peers and faculty.

Pomodoro (Tomato) Timer App. *Backend Software Engineer.* UCSD Course Project **January 2021–March 2021**

- Created a Pomodoro Timer web app as part of a team of 7 using the **Agile** workflow. The app boosted personal studying efficiency by more than 30% and received a top 10% grade among peers.
- Built backend components in **HTML** and **JavaScript**, and assisted design team planning in early stages.
- Tested app frontend and backend functionality through **Jest** and **Cypress**.