MARIAM MASUD

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Education

University of California, Los Angeles (UCLA)   **Expected June 2024**
Bachelor of Science in Computer Science

- Society of Women Engineers (SWE) Web-Dev
- Pakistani Student Association (PSA) - Director of Community Engagement
- **Programming Languages/Skills:** Python, C++, Java, JavaScript, TypeScript, React, HTML5, CSS3, Bootstrap, MongoDB, FireBase, MySQL, AWS, Git, GDB, Valgrind, Docker, Vim, Linux, JUnit, Mockito, Lombok, RISC-V

Experience

Amazon Air   **June 2023 – September 2023**
Software Development Engineer Intern   *Seattle, WA*

- Devised Input Parameters for WorkFlow Orchestrator (WFO) forecasting tool allowing scientists to input data into workflows via both input parameters and existing option of input files
- Researched and developed in-depth design document and led team design review for feedback
- Refactored existing **AWS Lambda**-backed APIs, **DynamoDB** tables, and inputs to **StepFunctions**
- Introduced comprehensive input validation to bolster robustness and strengthen security
- Collaborated directly with research clients. Addressed clients' pain points by integrating new forecasting tool
- Oversaw complete feature lifecycle through to production. Conducted thorough **unit/integration testing** to maintain **CI/CD** pipeline health

SWE at UCLA   **December 2021 – June 2023**
Web-Dev Committee   *Los Angeles, CA*

- Worked alongside 3 SWE developers. Improved responsiveness and streamlined UX via **Bootstrap**
- Designed and implemented UI for internal SWE Glassdoor concept, connecting UCLA SWE members to academic and professional resources
- Mentored incoming members. Maintained thorough documentation and oversaw technical onboarding

Amazon Air   **June 2022 – September 2022**
Software Development Engineer Intern   *Seattle, WA - Remote*

- Introduced Data Load Job feature to automate and standardize process for scientists to upload various file types onto WFO forecasting models
- Triggered Data Load task by building an **AWS Lambda** job to transport data from external to internal **S3 buckets** via Lambda-backed APIs
- Architected **DynamoDB** table via **CloudFormation** as a mechanism to track Data Load Job status

Knex Technology   **August 2020 – October 2020**
Data Science Intern   *Irvine, CA*

- Created custom data tables by extracting information from **Oracle**'s databases through **SQL** queries
- Leveraged **BI-Publisher** to build analytical reports used by client companies to visualize various company operations

NASA Community College Aerospace Scholars (NCAS) Program   **May 2020 – July 2020**
NASA Aerospace Scholar   *Stillwater, OK - Remote*

- Developed mock space flight mission to Mars with team of peers and NASA advisor. Won best mission due to depths of research
- Spearheaded team's **Gantt Chart** mission timeline. Coordinated and communicated critical information between sub-teams about engineering operations. Propelled team productivity with proposal of next steps and guiding questions

Projects

WalkPpl   **February 2022**

- Collaborated with 4 peers to create a music-listening web app simulating the experience of using a Walkman
- Enables users to search, listen, and download songs to their device. Supports custom playlist creation and sorting playlists based on 4 preset categories. Leveraged **React** and **Firebase** for **CRUD** operations on song database