Akshat Mardia

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EDUCATION

University of Washington, Seattle   **Seattle, WA**

BS, Electrical and Computer Engineering (ECE)   2024

SKILLS

Advanced: Java | C | C++ | Python | Embedded Systems | OOP | Git | Distributed Systems | Data Structures
Intermediate: JavaScript | C# | SystemVerilog | TCP/IP | Networks | MySQL | Kubernetes | Docker | Ubuntu
Novice: Arduino | AWS | Go | Kali Linux | OpenCV | OCaml | React | Node

WORK EXPERIENCE

Parkalytics   **Seattle, WA**

Capstone Project Member (SDE)   *Jan 2024 - Jun 2024*

• Developing and implementing a web app utilizing **Python** and **JavaScript** to facilitate the annotation of orthoimages generated from drone images, resulting in an increase in efficiency compared to manual annotation methods.

• Employing **Docker** to containerize the WebODM workflow and contributing to the deployment of a **Kubernetes** based system to improve scalability and availability.

• Collaborating with cross-functional teams to integrate the web app with existing 3D modeling software, allowing users to find images based on their selections in the UI using React and Leaflet.js and other libraries enhancing overall workflow efficiency.

Micro Labs Ltd   **Bangalore, India**

Software Developer   *Jul 2022 - Sep 2022*

• Developed and executed scripts using **SQLite** to automate daily data entry tasks, reducing manual entry errors by 40% for one of India's largest pharmaceutical companies and integrated it into the existing company software.

• Connected the company's MS Excel data sheets used for inventory tracking to the newly built data entry process, resulting in a 20% reduction in time spent on data management.

PROJECT EXPERIENCE

Hairline Analysis with ML   *Jul 2023 – Sept 2023*

• Developed an image processing pipeline in **Python** using **OpenCV** for facial landmark detection, concentrating on precise identification of key points on the forehead region.

• Utilized regression models and conducted time series analysis on the collected data to discern patterns and trends providing valuable insights into progression of hair loss or gain.

Track SBA (Aditya Birla Group of Schools)   *Jun 2021 – Aug 2021*

• Developed a **Java** application and implemented a robust database system leveraging **SQLite** and, enhancing data integrity and accessibility, resulting in a centralized platform for seamless storage and retrieval of competition data involving around 40,000 students across 25 schools.

• Boosted operational efficiency by 60% through the development of a custom software solution by utilizing **Java** and technologies like **OAuth**, automating the management of 57 inter-house competitions per school within a multi-school framework.