Sidharth Mallela

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EDUCATION

University of California, Berkeley   **Berkeley, CA**
B.A. Data Science @ CDSS | 3.44 GPA | PLTW Engineering Scholar | Business @ Berkeley   **Expected May 2026**

Relevant Coursework: Foundations of Data Science, Computational Structures, Data Structures and Algorithms, Principles and Techniques of Data Science, Computational Analysis for Astrophysics, Data Science for Smart Cities, Urban Design Systems, Advanced Computer Infosystems, Game Dev.

WORK EXPERIENCE

Hyphenova - Technology Startup   **Los Angeles, CA**
Database Management & Front-End Dev Intern   **March 2024 – August 2024**
- Engineered 3 Selenium Scrapers for IG, Meta, Tiktok Platforms using GeckoDriver, extracting **500+** brand deal videos weekly
- Implemented Database Linking in **Supabase** for **Flutter** Queries & Actions, reduced data retrieval latency from **200 to 140ms**
- Led full-scale application revamp, overseeing **Figma** site designs, developed UI in **Dart**, retention rates increased by over **20%**

The University of Texas at Dallas   **Richardson, TX**
Data Science & AI Research Fellow   **May 2020 – Aug 2022 (Summers)**
- Fine-tuned neural network architectures tailored for **multi-label classification**, minimized false-positives by **16.7%** in heart-risk diagnostics. Portrayed metrics and predictions of the model onto an advanced **Streamlit** dashboard.
- Incorporated **Logic-based Incremental Learning** to the model using **Prolog & Fold-R++** to attain a **96.5%** accuracy on the datasets relevancy and assessing their precision.

PROJECTS

SafeGuard: Authentication System   **Ventura, CA**
Front-End & Back-End Application Developer   **Nov 2024 – Jan 2024**
- Designed authentication flow interfaces for BBBSVC (youth mentoring non-profit) using **Flutter and Dart,** current usage of **100+** students daily. Implemented Google & Facebook Authentication API**, FirebaseAuth & FirebaseCore** DB packages.
- Integrated **GraphQL** into back-end architecture to streamline data-fetching processes, reduced API call overhead by **8%**

Project Hush: Geospatial Noise Pollution Mapping   **Berkeley, CA**
Data Analyst & Application Developer   **Jan 2024 – May 2024**
- Created an interactive dashboard with **Mapbox API** for **noise (dB) visualization** that lets users plan trips & choose more tranquil vacay locations based on thresholds for noise levels.
- Utilized algorithms like Density-Based Spatial Clustering of Applications with Noise **(DBSCAN)** and Geographic Weighted Regression **(GWR)** to identify clusters of noise pollution and assess their distribution patterns.

Lumin™ (Patent Pending)   **Los Angeles, CA**
Lead Automation Engineer & CAD Designer   **Sep 2022 – May 2022**
- Harnessing UVC light technology, Lumin achieves a disinfection rate of over **95%**. Bids farewell to bacteria and dust mites, guaranteeing a pristine, sanitary sleeping environment.
- Developed **Control Software** including in-built timer for UVC lighting cycles, mite scanning system, & implemented **motor control algorithms** for ease of use.

ADDITIONAL

Skills: Python*, HTML*, CSS*, Flutter, Dart*, Prolog, SupaBase*, FireBase, FlutterFlow, Fold-R*, MySQL, R, Rust, Django, Streamlit*
Miscellaneous Skills: CAD Softwares (Autodesk + Onshape), Figma (UI/UX Design)
Certifications & Training: Elements of AI (University of Helsinki), CS50 Python & AI (Harvard), Introduction to Info. Technology & AWS Cloud (Amazon), Supervised Machine Learning: Regression & Classification (Stanford), Google Workspace Specialization
Awards: 3rd out of 400+ designers in Figma UI/UX App design competition, PLTW Scholar