

MANISH PATIL

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EDUCATION

California State University, Dominguez Hills

M.S. Computer Science (GPA: 3.5)

Carson, CA

December 2023

- **Relevant Courses:** Advanced Big Data & Cloud Computing, Advanced AI, Software Engineering Processes, Software Design & Architecture, Advanced Data Structures & Algorithms, Project Management, Finite Automata, Object-Oriented Design Analysis.

University of Mumbai

B.E. Instrumentation and Control Systems Engineering

Mumbai, IN

December 2020

PROFESSIONAL EXPERIENCE

CISE - CSUDH

IT Specialist

Carson, CA

February 2024 – Present

- **IT Infrastructure & Web Systems:** Oversee daily **IT operations** including device provisioning, troubleshooting, lifecycle management, onboarding/offboarding, and **cross-platform** support for macOS, Windows, and network services (**DNS**, **VPN**, **WiFi**). Maintain & manage large multi-page departmental websites on **CM1** and **WordPress**, ensuring **ADA** compliance, consistent branding, optimized layouts, and timely content updates.
- **Inventory & Helpdesk System Development:** Developed a full-stack Inventory-Helpdesk Management System using **React 19**, **Node.js/Express**, and **SQLite**, featuring **JWT authentication**, **RBAC**, **REST APIs**, audit logs, and automated checkout/return workflows. Created a responsive **Material-UI** dashboard and integrated the **Google Sheets API** for efficient bulk data import/export and reporting.
- **Media Management and Creative Solutions:** Produce photography, videography, and post-production media using **Adobe Premiere Pro** and **Illustrator**, delivering high-quality content for marketing, communications, and departmental initiatives.
- **Team Leadership and Training:** Lead a team of **3 IT Student Assistants**, driving strong support performance and skill development. Previously served as an **Apple Teacher**, teaching **Swift programming** to ES and HS students in LA County.

CaspianLogic

Software Developer Intern

Cupertino, CA

May 2022 – October 2022

- Developed production-grade full-stack web applications using the **MERN** stack for a web development consulting firm.
- Built responsive **front-end** interfaces with **React** and implemented **RESTful APIs** using **Node.js**, **Express**, and **MongoDB**.
- Performed **application testing** and **debugging** to ensure performance, reliability, and production readiness.

Yali Inc. (Stealth Startup)

Data Engineering Intern

Chennai, IN

June 2019 – September 2019

- Automated data ingestion and processing using **Python** and **Airflow**, ensuring smooth integration across pipelines. Improved data quality with **Pandas** and **PySpark**, and extracted/cleaned web data using **BeautifulSoup** and **Selenium**. Managed **PostgreSQL** and **MongoDB** databases with optimized indexing for fast queries.

ACADEMIC PROJECTS

Football Match Prediction and Community Engagement Web Application- [Link](#)

February 2024

- Built a **full-stack Flask** web application that displays live and upcoming football matches using **REST APIs** (API Football, Football Data API), allowing users to submit predictions, track points, and chat in real time via **WebSockets** (**Flask-SocketIO**). Implemented a Windows-98-style UI, friend system, leaderboard, and social “football wall” with data stored in **SQLite** and managed through secure API key handling.

Uber Data Engineering Pipeline and Dashboard- [Link](#)

December 2023

- Built a scalable data engineering pipeline using **Mage** on **Google Cloud**, ingesting and transforming Uber trip data with **Python**, **Pandas**, and **BigQuery**. Implemented **fact-dimension modeling**, created datetime, location, rate-code, and payment dimension tables, and generated a consolidated fact table for analytics. Automated pipeline execution and produced an interactive **Google Data Studio** dashboard for querying and visualizing trip insights.

3D Geometric Shape Classification using CNN with PyTorch- [Link](#)

May 2023

- Developed and trained a custom **Convolutional Neural Network (CNN)** in **PyTorch** to classify 3D geometric shapes using a 480k-image dataset, achieving **99.77% validation accuracy**. Implemented a full ML pipeline including **data preprocessing**, **dataset splitting**, **GPU-accelerated training**, **model evaluation**, and deployed inference utilities for real-time predictions. Saved and restored model weights using `state_dict()` for reproducibility and further experimentation.

TECHNICAL STACK

Programming Languages: Python (Pandas, NumPy, PySpark, Matplotlib), SQL, JavaScript, React, Node.js.

Technical Skills: Git, Linux, Shell Scripting, Bash, VMware, Airflow, REST APIs, Django, Power BI, Tableau, Jupyter Notebook, Cloud (AWS, Azure, GCP), Data Lakes (S3, ADLS), BigQuery, Ticketing Systems, Firewalls, OpenCV, Microsoft 365.

Certifications: Jamf 100 & 200, Career Essentials in Generative AI (Microsoft/LinkedIn), Python for Everybody, Introduction to SQL, Data Analyst Bootcamp, Cisco Data Analytics Essentials, CompTIA A+ (in progress).