

AMOS JAIMES

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EDUCATION

MPS in Applied Machine Intelligence, Northeastern University, Boston	September 2024 - December 2025
Coursework: Data Visualization, Data Management, Hadoop, Spark.	3.8 GPA
Bachelor of Computer Applications, Kristu Jayanti College, Bangalore	July 2019 - June 2022
Coursework: Java Programming, Data Structures & Algorithms, Operating System, DBMS.	8.4 GPA

SKILLS & CERTIFICATES

Technical Skills: Python, DevOps, LabVIEW, C, Java, JavaScript, HTML, CSS, Hadoop, Spark, Supabase, Firebase, SQL, PyTorch.

Certificates: Advanced Certification Program for Data Science - IIIT Bangalore.
Azure Administration Essential Training - LinkedIn learning.
Certification in AWS Academy Graduate - AWS Academy Cloud Foundations.

EXPERIENCE

Software Test Engineer

National Instruments | Bangalore, India | August 2022 - July 2024

- Collaborated with clients to gather business requirements and developed scalable technical solutions using JavaScript, Python, and SQL, reducing manual processing time by 60%
- Built automated workflows and data integration pipelines connecting multiple enterprise systems, improving system reliability by 40% and enabling real-time data synchronization
- Participated in full SDLC including requirements analysis, development, testing, and deployment while creating comprehensive technical documentation and providing stakeholder training

PROJECTS

Vallive - Tournament Management Platform

HTML, CSS, JavaScript, Firebase | June 2022

- Developed full-stack responsive web application using modern web technologies to connect gaming community based on comprehensive user requirements gathering and stakeholder feedback sessions.
- Implemented secure user authentication and real-time data synchronization using Firebase services (Authentication, Firestore, Storage), ensuring scalable cloud-based architecture with proper database management.
- Collaborated directly with target users to design intuitive UI/UX that streamlined tournament discovery processes, demonstrating strong business analysis and user-centered development approach.

EDA on Loan Application Approval

Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook | August 2024

- Created interactive visualizations and documented findings in Jupyter Notebook, demonstrating strong analytical and technical communication skills.
- Performed detailed exploratory data analysis (EDA) on structured datasets using Python libraries.
- Identified and visualized critical trends and insights, showcasing analytical capabilities and aptitude for extracting meaningful market signals from tabular data.

CPS AI Assistant

JavaScript, Python, REST APIs, Supabase | December 2024

- Built enterprise-grade web application to automate academic advisor workflows, reducing student query response time by implementing automated service delivery mechanisms similar to IT Service Management processes.

- Designed automated data collection workflows for structured/unstructured web data with comprehensive documentation, enabling seamless knowledge base updates for service management processes.
- Developed and deployed system integration pipelines using LangChain, Supabase vector databases, and real-time query processing, demonstrating expertise in connecting multiple enterprise systems and API integrations

Productivity Patrol

Python, Supabase, OpenCV, DeepFace | April 2025

- Designed and developed an AI-powered desktop monitoring system to track user presence, identity, emotion, and stress levels using facial recognition and emotion detection. 5
- Created a PyQt6-based admin dashboard for real-time visualization of user data, security alerts, and stress trends, integrating Matplotlib for rich data displays.
- Engineered a scalable backend using Supabase (PostgreSQL) to securely store monitoring data, user profiles, and alert logs, with JWT-based authentication for admin access.

AR Face Tracking MVP

MediaPipe Face Mesh, Three.js, JavaScript (ES6+), WebRTC | June 2025

- Real-Time Augmented Reality: Developed a web-based Augmented Reality application for real-time face tracking and 3D object rendering, achieving 30+ FPS on web and mobile platforms.
- Computer Vision & Machine Learning: Integrated Google's MediaPipe Face Mesh library to detect and track up to 3 faces simultaneously, utilizing a sophisticated model with 468 facial landmarks for high-precision tracking.
- 3D Graphics and Rendering: Implemented a 3D rendering pipeline using Three.js and WebGL, featuring dynamic object placement, realistic lighting (ambient, directional, and point lights), and smooth 60 FPS animations.
- Web Technologies: Built with modern, browser-native technologies including JavaScript (ES6+), WebRTC for camera access, and WebGL for hardware-accelerated graphics. The project requires no external plugins or installations.