

Dhruv John Samuel

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STATEMENT

A quantitative problem-solver with a strong foundation in data structures, algorithms, and applied mathematics. Experienced in leveraging **Python**, **SQL**, and statistical analysis to perform data exploration, generate insights, and build data-driven solutions. Passionate about solving complex business problems and turning large datasets into actionable recommendations.

EXPERIENCE

App Developer, Vehnicate

Jul 2025 – Present

- Engineered a real-time **data pipeline** using a **Supabase (PostgreSQL)** backend to process and transmit sensor data at 100 ms intervals, focusing on low-latency and high-throughput performance analysis.
- Integrated **Firebase** and **Supabase** to create secure authentication and data workflows, ensuring high **data integrity** and reliability for user information.
- Analyzed and modeled data flows between the application and backend to optimize performance and support concurrent user interactions.

Offensive Cybersecurity Intern, InlighnTech

Jul 2025 – Oct 2025

- Designed and implemented a **phishing email anomaly detector** in **Python**, performing statistical analysis on IMAP protocol data to identify and flag malicious patterns.
- Integrated analytics results into **Splunk** to create real-time monitoring dashboards, **interactive visualizations**, and severity-based alerts, converting raw data into actionable security insights.
- Developed Python scripts for large-scale **data extraction** and analysis, including network and port scanning, to identify trends and vulnerabilities from network traffic data.

PROJECTS

ServiceWala (On-Demand Services Platform)

2025 – Present

- Tech:** Supabase (PostgreSQL), Firebase Auth, FastAPI, Python
- Designed the **PostgreSQL schema** and data pipelines to ensure transactional integrity and real-time data synchronization across the platform.
- Integrated Firebase and Supabase to increase user security and validity

RAG Document Q&A System (Backend)

2025

- Tech:** FastAPI, FAISS, Python, Statistical Analysis
- Developed a backend system leveraging **FAISS** for efficient similarity search and information retrieval from large-scale, unstructured text data.
- Performed **quantitative analysis** of query performance and implemented caching strategies, significantly improving response time and system efficiency.

Pathfinder (Event Mapping App)

2024–25

- Tech:** Flutter/Dart, Google Maps API, Node.js, Express.js, MongoDB (NoSQL)
- Engineered a map-driven application handling real-time data streams for over 100 concurrent users, utilizing **MongoDB** for flexible, high-volume data storage.
- Conducted performance and load testing on REST APIs using Postman to ensure high reliability and low latency for critical data endpoints.

SKILLS

- Data Analysis** Python (Pandas, NumPy), SQL, Statistical Modeling, Data Visualization (Splunk), Quantitative Analysis, R (Familiar)
- Languages:** Python, Java, C/C++, SQL
- Technologies:** FastAPI, Supabase (PostgreSQL), Firebase, MongoDB, Git/GitHub
- Foundations:** Data Structures & Algorithms, Object-Oriented Design, Problem Solving
- Certifications:** IBM Certified Cybersecurity Analyst

ACHIEVEMENTS

2024

Ranked 8th in Semester 3 (B.Tech CSE - CPS); Meritorious Award, Dept. of CSE