Sammy Dabbas

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LinkedIn | GitHub

Education

University of Central Florida
Bachelor of Science in Computer Science

Expected - August 2026
GPA: 3.9

Skills

Languages: Python, C#, JavaScript, SQL, HTML, CSS, Visual Basic
Frameworks/Libraries: .NET Core, FastAPI, React.js, Node.js, Django, Pandas, NumPy, OpenCV
Databases: MS SQL Server, Firebase (Firestore), Amazon DynamoDB (design)
Tools: Git, GitHub, Docker, Kubernetes, Visual Studio, FFmpeg
Cloud Platforms: AWS (Kinesis, EKS, ECS, S3 - design), Firebase

Work Experience

FINDER Software Solutions
Software Developer Intern

Orlando, FL
Sep 2024 – Present

- Built and launched a Python & .NET Core service that converts HTTP-processed vehicle images to RTSP streams, reducing integration time for traffic monitoring by 30%.
- Engineered C# and Python ETL pipelines processing 10+ GB/day, improving ingestion accuracy by 15% and reducing latency by 25%.
- Created high-throughput .NET data parsers validating 5GB+ SQL/XML datasets, cutting processing errors by 50%.
- Delivered 20+ feature enhancements, including a performance optimization that reduced query time by 20%.

NASA
Statistical Analyst, NASA Research Team Member

Orlando, FL
Nov 2023– Feb 2024

- Used Python to forecast severe weather and perform error analysis, improving prediction accuracy by 5% for Kennedy Space Center launches.
- Analyzed 10+ years of weather-fatality data with Pandas and Matplotlib, uncovering insights adopted by the National Weather Service.
- Built a Python tool estimating Lightning Launch Commit Criteria violations for operational planning.

Projects

Real-Time Ad Event Processing System Design | *Python, FastAPI, AWS, Docker*

- Designed a scalable system ingesting 1M+ ad events/sec with <20ms latency using FastAPI and Kinesis.
- Modeled DynamoDB schemas for low-latency access; implemented DAX caching for microsecond read performance.
- Containerized ingestion, processing, and query microservices with Docker and orchestrated them via EKS.

GPU Training Service (Team of 3) | *Django, React.js, Docker, Kubernetes*

- Collaborated with 2 teammates to build a full-stack platform dynamically deploying and managing ML workloads, cutting job setup time by 40%.
- Automated GPU resource provisioning via Kubernetes controllers; simulated up to 16 GPU nodes.
- Developed Django APIs and containerized both backend and training images.

UCF Lab Inventory System | *React.js, Firebase, HTML5-QRCode*

- Created an app tracking 200+ lab items with QR codes, reducing check-in/out time by 10 seconds per transaction.
- Integrated Firebase Auth and Firestore security rules for role-based access.