

Maged Georgy Armanios

Full-stack Developer

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Education

Bachelor of Engineering - Software Engineering

McMaster University

Expected Completion **May 2025**

CGPA of 3.9/4.0

Professional Experience

[Mitsubishi Heavy Industries RJ](#) | Data & Applications Developer

May 2023 – September 2024

- Utilized **Python** to migrate the loading of text-based data into a **SQL** Database away from Azure Data Factory, reducing loading time by over 90% and saving \$5000 annually in cloud computing costs.
- Independently maintained a customer facing **Python Flask & React** application, designing RESTful APIs, database queries, and frontend components to deliver aircraft diagnostic data to over 50+ airlines globally.
- Utilized **Docker & Azure DevOps** to create build and deployment pipelines to Azure App Services & Container Registries for beta, dev, and prod environments.
- Architected & developed a customer facing desktop application using **Electron, React, & Express** to provide customers with offline access to aircraft technical publications and an **Elasticsearch**-powered document search.

Volunteer Experience

[One Coptic Library](#) | Lead Flutter Developer

January 2023 – Present

- Lead developer for an international initiative to preserve and standardize Coptic literature. Developing enhancements and maintaining a cross-platform application spanning 7+ countries, 10+ languages, and all major platforms including iOS, Android, macOS, Linux, Windows, and Web.
- Integrated **Firebase** Authentication and Crashlytics into the application, allowing the developers to track uncaught exceptions resulting in a 30% increase in crash-free sessions.
- Co-created an API scheme with that leveraged **SQLite** to provide offline functionalities to users. Optimized downloads and ensured data consistency by chunking downloads, batching SQL queries, and queuing API calls.

Projects

[Bookineer](#)

- Architected and developed a production-ready SaaS booking platform with **Next.js**, **PostgreSQL**, and **TanStack**, implementing industry best practices for security while maintaining 99.9% uptime for business clients.
- Created low downtime deployments utilizing **Docker**, **Watchtower**, and **GitHub Actions**.
- Created functional, unit, and regression tests using **Jest**
- Engineered a comprehensive payment processing system integrating Clover with custom webhook handling,
- Hosted user assets using **AWS S3 Buckets** to ensure highly scalable, secure and low-latency data storage.

[Bravo Dispatch](#)

- 1st place overall project at Hack Western 11.
- Developed a **Next.js** CAD system that provides live translation and automatically summarizes key points from a 911 call.
- Used **Supabase** for a cloud datastore and Cloudflare Workers AI to summarize key details of transcribed audio.

Skills

Programming: Python, React.js, Next.js, TypeScript, JavaScript, Express, NodeJS, Dart/Flutter, Flask

Data Solutions: SQL, SQLite, Drift, PostgreSQL, Elasticsearch

Developer Tools: Git, GitHub, Gitlab, Azure DevOps, Postman, Firebase, Supabase, Docker, Linux, AWS

Other: Technical presentations, RESTful API Design, Database Design, Query Design, TanStack