Abdalla Abdelmagid

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EDUCATION

Towson University, Towson, MD   *B.S. Computer Science* — May 2025
GPA: 3.8/4.0

- **Key Coursework:** Data Structures & Algorithms, Operating Systems, Database Management Systems, Mobile App Development, Software Quality Assurance & Testing, Object-Oriented Programming, Web-Based Programming
- **Honors:** Cum Laude, 8x Dean's List

TECHNICAL SKILLS

Languages: Swift, Java, Python, JavaScript/TypeScript, C++, SQL, HTML/CSS, Go, LaTeX
Frameworks: React, Node.js, Express, Spring Boot, SwiftUI, UIKit, StoreKit, MapKit, CoreLocation, Alamofire
Tools/Cloud: Git/GitHub, Docker, Firebase, MongoDB, Terraform, JUnit, Tableau, pandas, Matplotlib, Mockito

Experience

iOS Developer   Remote
Self-Employed   Jan 2025 – Present

- Shipped 10+ native iOS apps to the App Store, driving 3,000+ downloads and maintaining a 4.6 average rating.
- Built scalable, maintainable codebases using SwiftUI, UIKit, StoreKit, and MVVM, leveraging Combine and async/await for high-performance features.
- Monetized apps through subscriptions and in-app purchases, generating recurring revenue and improving user engagement.

Data Science Research Fellow   Baltimore, MD
National Science Foundation (NSF)   Sep 2024 – Dec 2024

- Analyzed Baltimore City crime/resource datasets with Python (pandas) and SQL, applying regression and clustering to uncover correlations.
- Built interactive Tableau dashboards and Matplotlib visualizations to highlight key trends.
- Presented insights and policy recommendations to NSF and university stakeholders.

Software Engineer Intern   Remote
Revature   May 2024 – Aug 2024

- Engineered 6 RESTful API endpoints in Java/Spring Boot with JWT authentication, securing data for 1,000+ users.
- Optimized database queries with Spring Data JPA, reducing latency by 30% and improving platform responsiveness.
- Authored 15+ unit/integration tests with JUnit 5 and Mockito, uncovering recurring bugs and preventing crashes.

Software Engineer Intern   Columbia, MD
HQLABS   May 2023 – Aug 2023

- Built a real-time transaction monitoring dashboard with React, TypeScript, and Tremor, enabling live financial data visualization.
- Developed high-throughput gRPC services in Go to process financial transactions, improving reliability and throughput.
- Deployed microservices with Terraform, streamlining CI/CD and reducing deployment errors.

PROJECTS

University Marketplace   Feb 2025

- Built secure campus marketplace (MERN, Firebase Auth) enabling verified .edu sign-ups, real-time chat, and Stripe-powered payments.
- Designed flexible MongoDB schemas and optimized queries to ensure smooth loading and filtering of marketplace items.

nVolve — Event Discovery App   Nov 2024

- Developed SwiftUI app displaying geolocated events; used Alamofire + Codable for REST API consumption and CoreLocation for GPS services.
- Implemented a MapKit-based interface with filtering and favorites features to help users find and bookmark nearby events.

Movie Recommender Web App   May 2024

- Collaborated in an Agile team of 4 to design a responsive UI (HTML/CSS/JS) and build a RESTful backend (Java, Spring) interfacing with MySQL and OpenAI GPT-3 to suggest films.
- Implemented JWT-based authentication and deployed the application in a Dockerized environment for public access.