Emad Aljabry

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EDUCATION

University of Georgia — August 2021 – May 2025
Bachelor of Science - Computer Science (GPA: 3.85/4.00) — *Athens, GA*

Relevant Coursework: Data Structures, Algorithms, Software Engineering, Systems Programming, Operating Systems, Database Management, Computer Networks, Artificial Intelligence, Data Mining, Special Topics in Deep Learning

EXPERIENCE

Pabloo Inc. — January 2023 – Present
Software Engineer — *San Francisco, CA*

- Enhanced the user experience of Store Credit loyalty programs by designing and launching intuitive front-end global components using React and Node.js, leading to a 68% increase in click-through rates and enabling our merchants to strengthen financial relationships with their customers by refining vital issuance and transaction processes.
- Spearheaded development of multiple integrations with popular Shopify apps using RESTful APIs and custom webhooks, including support for third-party payment systems, driving a 46% increase in merchant adoption.
- Optimized database performance by redesigning data models and implementing efficient indexing strategies in MongoDB, achieving a 32% reduction in query response times. Led the migration to a distributed architecture which strengthened fault tolerance and availability, while aiding scalability for a growing user base.

Software Engineering Intern — *October – December 2022*

- Implemented Test-Driven Development to ensure reliable user flow and quickly identify and patch critical bugs during production. Utilized continuous integration practices to enhance system stability and minimize downtime.
- Streamlined software development lifecycle by optimizing Git version control workflows and integrating CI/CD pipelines, reducing deployment times by 22% and improving team collaboration efficiency through GitHub.

Georgia Institute of Technology Startup — May – July 2021
Software Developer Intern — *Atlanta, GA*

- Led the successful development of a Convolutional Neural Network-based model using Python and Anaconda for scientific computing, capable of accurately categorizing images by size and resolution.
- Collaborated with a team of undergraduates to design and launch an iOS social media and image-saving platform to ensure a cohesive and well-executed product, resulting in 1,000+ App Store downloads within the first month.
- Engineered the mobile app using SwiftUI and increased database efficiency by 16% by optimizing MySQL queries.

PROJECTS

Voice Recognition Software - UGAHacks Makeathon - 1st Place | *Python, REST API, Git*

- Won first place at the UGAHacks 2022 Makeathon for developing innovative voice recognition software within a 48-hour sprint, designed to empower immobilized patients in a mock hospital setting by boosting their quality of life and independence. This solution utilizes voice processing for interactions between hospital systems and patients.
- Architected and deployed a REST API in Python using McKenney's provided API for their sponsored company challenge, converting complex voice commands into precise network requests. Enabled seamless porting to different systems while delivering a high-performance solution applicable across a range of hospital use cases.
- Integrated multiple voice activation phrases to create a solution that adapted to diverse patient vocabularies.

Battery Aging ML Prediction | *Python, AWS Lambda*

- Synthesized machine learning model based on a Stanford Research Paper to predict battery aging, utilizing TensorFlow and Keras to apply complex concepts into a real-world solution for Lithium-ion health prediction.
- Refined model performance by 12%, deploying the solution to AWS Lambda to enhance prediction speed and streamline result delivery, effectively leveraging cloud infrastructure and successful optimization strategies.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, Swift/SwiftUI, SQL, C/C++, HTML/CSS, Bash
Frameworks: React, Node.js, Next.js, Flask, GraphQL, REST APIs, Webhooks
Libraries: Redux, Pandas, TensorFlow, NumPy, Matplotlib, Scikit-learn, Keras
Developer Tools: Git, GitHub, Linux, Maven, Postman, VS Code, WebStorm, PyCharm, IntelliJ, AWS (EC2, Lambda)