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 implementing intuitive front-end global components using React and Node.js, leading to increased click-through rates by 68%, improving product usability for partnering clients.
- Spearheaded development of multiple integrations with popular Shopify apps using RESTful APIs and webhooks, resulting in a 46% increase in merchant adoption and a 25% reduction in integration-related support requests.
- Optimized database performance by redesigning data models and implementing efficient indexing strategies in MongoDB, resulting in a 32% reduction in query response times. Led the migration to a distributed architecture, strengthening 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 development processes by optimizing Git version control workflows and integrating CI/CD pipelines, reducing deployment times by 17% and improving collaboration efficiency through GitHub.

Georgia Institute of Technology Startup May – August 2019

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 3 undergraduates to design and launch an iOS social media and image-saving platform, ensuring a cohesive and well-executed product.
- Developed the mobile app using Swift and SwiftUI, and managed the image collection database with MySQL.

Projects

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

- Achieved 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 independence and quality of life.
- Architected and deployed a REST API in Python using McKenney's provided API for their sponsored challenge, converting complex voice commands into precise network requests, enabling seamless system integration and delivering a high-performance solution.
- Integrated multiple voice activation phrases to create a solution that adapted to diverse patient vocabularies.

Battery Aging ML Prediction | *Python, AWS Lambda*

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

Technical Skills

Languages: Python, JavaScript, Java, Swift/SwiftUI, MySQL, Bash, HTML/CSS
Frameworks: React, Node.js, Next.js, Flask, Webhooks, REST API
Libraries: Pandas, TensorFlow, Keras, Redux
Developer Tools: Git, GitHub, Linux, Maven, VS Code, WebStorm, PyCharm, IntelliJ, AWS (EC2, Lambda)