Abdullah Mohammed Alrefaey

Software Development Engineer

EDUCATION

Cairo University - Faculty of Engineering,

Bachelor of Science: Systems and Biomedical Engineering

Sep 2016 - Jul 2021

Giza, Egypt

Giza, Egypt

EXPERIENCE

Grinta, Software Development Engineer \square

Oct 2023 - present

- Developing and integrating backend APIs using a microservices architecture with AWS services (Lambda, Step Functions, DynamoDB, S3, SNS, SQS, EventBridge Schedulers, Cognito, API Gateway, Secrets), utilizing Python for serverless development to optimize performance and scalability.
- Playing a key role in developing and enhancing major features for Ana Al Ahly mobile app, including a comprehensive Loyalty and Pointing System enabling users to redeem and invest points, a Match Section displaying matches data by integrating with third-party APIs for fetching data in real-time, and the integration of the Paymob POS solution for payment processing.
- Ensuring high availability and reliability for over 500,000 users through effective use of AWS cloud technologies, collaborating with backend developers, and improving project maintainability by documenting APIs and services.

PROJECTS

Graduation Project, Python, PyQt5, PyTorch, Linux, AWS, Flask □

- Developed a 3DSlicer plugin to analyze cardiac CT scans and assess health risk factors, integrating a Deep Learning model for segmentation and image processing.
- Included a Flask server for cloud processing, deployed on an AWS EC2 instance.

Ticket Market, Node.js, Next.js, Bull.js, TypeScript, MongoDB, Redis, NATS, Stripe, Jest, Docker, Kubernetes 🗷

- Developed a microservices-based e-commerce app with a Node.js backend and Next.js frontend, authenticated by JWT.
- Utilized MongoDB, Redis, NATS, and Stripe, with unit testing in Jest, background workers in Bull.js, and CI/CD via GitHub and Kubernetes.

Healthcare CMMS, Node.js, Express.js, SQLite, Segulize, Bootstrap, Socket.IO □

StoryBooks App, Node.js, Express.js, Mongoose.js, Materialize, OAuth 2.0 □

• Developed a web-based story posting app with OAuth 2.0 Google API authorization, using MVC architecture.

TECHNICAL SKILLS

Programming Languages: Python | Javascript | Typescript | C/C++ | Java

Technologies: AWS | Git | Docker | Kubernetes

Backend Frameworks: Boto3 | Moto | Node.js | Express.js | Jest | Flask | Meteor.js | Socket.IO 🖸

Frontend Frameworks: Angular | React.js | Next.js | PyQt **Databases:** DynamoDB | Redis | MongoDB | SQLite | Sequlize

VOLUNTEER WORK

Representative of Biomedical Engineering Class 2021

• Managed lecture schedules and admin tasks, and facilitated communication between students and TAs.

International Student Conference 2019, IT & Registeration Member □

Designed registration tickets and emails, and managed attendee registration and records.