

Jacob Long

Cairo, Egypt
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Summary

Passionate and detail-oriented Software Engineer with over 5 years of experience in building scalable web applications and microservices. Proficient in modern programming languages and frameworks, with a strong focus on delivering high-quality code and maintaining best practices. Experienced in collaborating with cross-functional teams to drive project success and improve user experience.

Experience

Senior Software Engineer

Tech Solutions Inc. - Cairo, Egypt

January 2021 - Present

- Developed and maintained a **Microservices Architecture** for a large-scale e-commerce platform, leading to a **30% reduction in server response time**.
- Implemented an **API Gateway** that improved security and performance, handling over **1 million requests per day**.
- Collaborated with a team of 8 developers using **Agile methodologies**, ensuring timely delivery of features and bug fixes.

Software Developer

Innovatech Labs - Cairo, Egypt

June 2018 - December 2020

- Led the development of a **Real-time Chat System** using **React** and **Node.js**, which increased user engagement by **40%**.
 - Enhanced database performance by optimizing queries in **PostgreSQL** and **MongoDB**, achieving a **25% improvement in data retrieval times**.
 - Participated in CI/CD processes using **Jenkins**, streamlining deployment and reducing release cycles by **15%**.
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Skills

- **TypeScript**: Advanced
 - **React**: Advanced
 - **Java**: Advanced
 - **PostgreSQL**: Intermediate
 - **MongoDB**: Intermediate
 - **Docker**: Intermediate
 - **AWS**: Intermediate
 - **JavaScript**: Intermediate
 - **Jenkins**: Beginner
 - **Data Science**: Beginner
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Projects

- **Microservices Architecture**: Designed and implemented a microservices framework for an e-commerce application, facilitating independent deployment and scaling of services.
- **API Gateway**: Developed a unified API gateway that improved the communication between microservices and external clients, enhancing security and performance.

- **Real-time Chat System:** Created an interactive chat application that supports real-time messaging, leveraging WebSockets and integrated with a NoSQL database for scalability.
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Education

Bachelor of Science in Computer Science

Cairo University - Cairo, Egypt

Graduated: May 2018

- Graduated with honors, focusing on software development and database management.
 - Completed a capstone project on **Machine Learning Applications**, earning the highest distinction in the class.
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Certifications

- **AWS Certified Solutions Architect - Associate** (2022)
 - **Java SE 11 Developer Certification** (2021)
 - **Data Science Foundations** (Coursera, 2020)
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References

Available upon request.