

JOSHUA GODINHO

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EDUCATION

Master of Science, Computer Science and Engineering

Sep 2023- Jun 2025

Santa Clara University, Santa Clara, CA

Bachelor of Engineering, Computer Science

Jul 2018 - Jun 2022

University of Mumbai, Mumbai, India

WORK EXPERIENCE

Software Engineer Intern at Instahub | Santa Clara, CA

Dec 2024 - Present

- Engineered **scalable serverless integration workflows** using AWS services, including API Gateway, DynamoDB, S3, Kinesis Data Firehose, and CloudWatch, by leveraging AWS CDK to efficiently define and deploy infrastructure as code, automating complex data pipelines and ensuring seamless synchronization across cross-platform enterprise tools.
- Implemented **API caching mechanisms** for high-frequency endpoints using AWS API Gateway and Lambda authorizers, reducing redundant backend invocations by 65%. This optimization saved an estimated **\$40,000 annually** in compute costs while improving response times by 45%.

Software Engineer Intern at Instahub | Santa Clara, CA

July 2024 - Sep 2024

- Architected AWS Cognito-based authentication using JWT tokens, enhancing security and user management for over 50,000 active users. Leveraged **AWS Lambda, API gateway, Python and React.js** to implement dynamic session extension mechanisms reducing login failures and support tickets—saving an estimated **\$24,000 annually** in operational overhead..
- Resolved critical AWS Amplify deployment issues for the InstaHub monitoring Dashboard, leading to a 30% improvement in build efficiency. Leveraged **CloudFormation stack**, Cloudwatch logs, AWS SNS and custom scripts to automate builds ensuring a seamless **CI/CD pipeline**, enhancing system reliability by 40%.
- Strategically deployed and configured 15 Microservices using AWS Lambda, API Gateway, Amazon RDS, Node.js and Python, seamlessly integrating their aliases with API Gateway for enhanced version control. Through meticulous optimization, achieved a 30% reduction in system latency, significantly boosting application responsiveness and performance.

Graduate Research Assistant at Santa Clara University | Santa Clara, CA

Feb 2024 - Jun 2024

- Integrated Accelerometer sensor using ShakeDetector technology, reducing the acknowledgment time of incoming requests by 50% compared to traditional VOIP solutions, enhancing real-time responsiveness in disaster scenarios.
- Enhanced the user authentication system integrated with Firebase schema, enabling seamless user registration and login, resulting in a 35% increase in user sign-up rate and a 80% reduction in authentication errors.

Associate Software Engineer at Accenture | Mumbai, India

Nov 2022 - July 2023

- Analyzed and innovated solutions as a **.NET Developer** for **Allstate Insurance**, to accomplish high-quality scalable and extendable .NET solutions in **C#, ASP.NET Core, Web API's and Blazor**.
- Optimized two ASP.NET Core applications for Allstate Insurance—Claims and Support—boosting claim filing and tracking efficiency by 17%, reducing average claim processing time from 5 days to 4 days.
- Developed and integrated **Web APIs** to facilitate seamless communication between web applications and databases, ensuring timely data delivery and efficient data flow, enhancing application configuration and testing, resulting in a 4% increase in business productivity over 9 months.

Full Stack Developer Intern at Wowrooms Hospitality | Mumbai, India

Oct 2020 - Jan 2021

- Engineered and deployed **REST APIs** using **Laravel PHP**, leveraging advanced routing and middleware capabilities to improve backend efficiency by 35%, reducing server response times and saving an estimated **\$3,000**.
- Developed a dynamic, responsive UI with Bootstrap and JavaScript, seamlessly integrated with Laravel server-side logic, resulting in a 30% improvement in system efficiency and reducing maintenance overhead by 20% through reusable component design.

TECHNICAL SKILLS

Programming Languages: Java, Javascript, Kotlin, SQL, Python, C#

Frontend Frameworks: React.JS, Angular, Material-UI, HTML/CSS, Bootstrap

Backend Frameworks: Node.js, Express, Springboot, .NET Core, ASP.NET, Django, Restful API, Flask

Databases and Tools: SQL, MongoDB, PostgreSQL, Firebase, Git, Github, Postman, Linux, Figma, VS Code, Microsoft Office

Cloud Platforms: AWS (Lambda, API gateway, EC2, Cloudformation, ASG, SNS, SQS, S3, RDS, DynamoDB)

Certifications: AWS Certified Solutions Architect Associate ([Link](#))

PROJECTS

AI-Powered Microservice Architecture | .NET Aspire| Redis | PostgreSQL| *RabbitMQ* | *GenAI* | *RAG* | *KeyCloal* | *Ollama* [[Github](#)]

- Architecting a **GenAI-driven, cloud-native distributed architecture** using **.NET Aspire**, integrating microservices with **PostgreSQL, Redis**, and **RabbitMQ** for scalable messaging and event-driven workflows .
- Implementing intelligent features like RAG-based Q&A chatbots and semantic search using Ollama's Llama/Phi models and Microsoft Semantic Kernel, for product discovery and context-aware Q&A.

Stock Market Cloud based Real time News | Springboot | React.js | Node.js | Express | AWS [[Github](#)]

- Pioneered a **cloud-based publish/subscribe system** on AWS to efficiently manage distributed algorithms like Broadcast, Multicast, Leader Election, Heartbeat Protocols and Mutual Exclusion solving high-latency issues in real-time data streaming.
- Architected a **broker-based microservices system**, increasing throughput by 270% and reducing median latency to 371ms, enabling high-traffic applications to scale effortlessly without performance bottlenecks.