

JOSHUA GODINHO

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EDUCATION

Santa Clara University, Santa Clara, CA

Master of Science, Computer Science and Engineering

Sep 2023- Expected Jun 2025

University of Mumbai, Mumbai, India

Bachelor of Engineering, Computer Engineering

Jul 2018 - Jun 2022

WORK EXPERIENCE

Graduate Research Assistant under Prof. Navid Shaghghi at Frugal Innovations hub | Santa Clara, CA Feb 2024 - Present

- Collaborated with the mobile computing team to develop disaster management technology for an ERCIT prototype using Agile methodologies, ensuring rapid iteration and continuous improvement.
- 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.
- Developed an Android application in Kotlin, enhanced backend operations with Node.js on Amazon EC2 for 25% improved server efficiency, and implemented Twilio for SMS and VOIP, boosting message delivery reliability by 30% and reducing latency by 20%.

Associate Software Developer at Accenture | Mumbai, India

Nov 2022 - Aug 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** and **Blazor** with adoption of **SCRUM** methodology.
- Utilized Blazor's security sandbox to safeguard client machines from malicious actions, enhancing overall application security compliance by 25%.
- Optimized and deployed two **ASP.NET** applications for Allstate Insurance—Claims and Support—**boosting claim filing** and tracking efficiency by **17%**.
- Implemented advanced ASP.NET caching mechanisms, improving web application performance and scalability by 40%.
- 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 Web Developer Intern at Wowrooms Hospitality | Mumbai, India

Oct 2020 - Feb 2021

- Led a cross-functional team and developed a dynamic and robust web application for **Hourly Rooms**, as the frontend team lead, with adoption of Agile methodologies, improving project delivery efficiency by 25%.
- Engineered and deployed APIs initially using Django REST framework before transitioning to Laravel PHP for its advanced routing mechanisms and middleware capabilities, resulting in a 35% increase in API response efficiency.
- Ensured timely delivery of critical projects, achieving an 80% bug resolution rate within 24 hours and reducing time-to-market by 20%.
- Integrated Google Maps API for geolocation services, enabling hotel tracking on maps, which increased database query efficiency and reduced page load times by 40%.

SOFTWARE SKILLS

Programming Languages: Java, Kotlin, SQL, Python, C++, HTML5, CSS, Javascript, C#

Technologies: .NET Core, ASP.NET, RESTful API, Node.js, AWS, Django, Laravel, Spring

Databases/ Data processing : MongoDB, MySQL, PostgreSQL, Firebase

Tools : Docker, Git, Jira, Bash, Microsoft Office

PROJECTS

Multicast Cloud based Real time News

- Pioneered a cloud-based publish/subscribe model proficient in managing key distributed algorithms such as Broadcast, Multicast, Leader Election, Heartbeat Protocols and Mutual Exclusion.
- Designed and deployed backend components as microservices on AWS EC2 instances, for efficiently scaling virtual servers, enhancing system scalability and availability.
- Architected a broker system on AWS, increasing throughput by 270%, reducing dropped messages to zero, maintaining median latency at 371 milliseconds, and achieving a 0% error rate under high-traffic conditions.

Mission Minded Full Stack Web Application

- Developed a dynamic multi-portal website using React JS and Node.js, increasing user engagement by 20%. Integrated Django with SQLite, reducing development time by 30%.
- Implemented scalable solutions on AWS Cloud, utilizing Amazon S3 for storage and EC2 for load balancing, cutting hosting costs by 35% through optimized cloud infrastructure.