

JOSHUA GODINHO

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EDUCATION

Santa Clara University, Santa Clara, CA

Master of Science, Computer Science and Engineering

GPA: 3.85

(Sep 2023- Expected Jun 2025)

Relevant Coursework: Object Oriented Design and Programming, **Database Management and Systems**

University of Mumbai, Mumbai, India

Bachelor of Engineering, Computer Engineering

GPA: 3.9

(Jul 2018 - Jun 2022)

Course Electives: Advanced Web Programming , Advanced Algorithms, **Data Warehouse and Mining**, Cloud Computing

WORK EXPERIENCE

Research Assistant under Professor Navid Shaghghi, Santa Clara University, California

Feb 2024 - Present

Mobile App Developer | Incident Aid Project

- Collaborating with the mobile computing team to develop disaster management technology for an **ERCIT prototype** using **Agile** methodologies.
- Developing the **Android based application** using **Kotlin** with a port to iOS, with the backend operations querying to **Firestore**, and integrating with **Node.js**, hosted on a second generation **Amazon Elastic Compute Cloud** instance server, implementing **Twilio** which is a cloud communications platform for messaging and Voice Over IP (VOIP) as its primary means of sending SMS messages.

Accenture, Mumbai, India

Nov 2022 - Aug 2023

Associate Software Developer

- Analyzed and innovated solutions as a .NET Developer for an off-shore client company, **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.
- Rendered changes in two live applications, Claims and Support page of Allstate insurance, building and configuring code using **ASP.NET**, thereby increasing efficiency of filing and tracking of claims by **17%**.
- Performed Full stack web development operating on Oracle SQL databases for creating, testing, and assembling code to configure applications thereby **increasing** business productivity of **4% in 9 months** and code efficiency by **26%**.
- Provided expert advice in the CSS team of 14 members on standards and methodologies of application design and functionality, and direction to stakeholders to deliver on client's expectations thereby increasing customer stakeholder satisfaction by **15%** and reduction in support tickets by **34%**.

Wowrooms Hospitality, Mumbai, India

Oct 2020 - Jan 2021

Full Stack Web Developer

- Collaborated with the frontend team and built a web application for clients **Hourly Rooms** which later became India's no.1 Hourly Hotel Booking Platform, with the adoption of **Agile** methodologies improving project delivery efficiency by **25%**.
- Executed user interface leveraging **Javascript** and **Bootstrap** and wrote functionalities and queries for backend leveraging **Laravel PHP framework** thereby increasing frontend-backend integration by **40%**.
- Led a cross-functional team as the front-end team to deliver a critical project on time and resolved **80%** of reported bugs within a 24-hour time frame resulting in a 20% reduction in time-to-market.
- Designed and coded on **API Development** leveraging **Django**, REST API, **Scripting**, **Database integration** operating on **MongoDB** and Google Geo Location Mapping improved database query efficiency and reduced page load times by **40%**.

SOFTWARE SKILLS

Areas of Expertise: **Full Stack Developer**, Frontend , Backend, Android App developer, Cloud Computing

Technologies: **.NET Core**, ASP.NET, Spring, **RESTful API**, React JS, Node.js, AWS, **Angular**

Database Management: MongoDB, **MySQL**, **PostgreSQL**

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

Tools : Visual Studio Code, **Docker**, **Git**, IntelliJ, Microsoft Office

PROJECTS

Mission Minded Full Stack Web Application

- Built a multiple portal website in **React JS** and **Node.js** due to rising Covid demands which are dynamic enhancing user experience by **20%** in user-engagement metrics.
- Integrated new technology with **Django** Techstack in Python with database in **SQLite** resulting in a **30%** reduction in development time. Implemented scalable solutions on **AWS Cloud** using **Amazon S3** for storage and deployed **Amazon EC2** to balance scalable load leading to a **35%** reduction in hosting costs due to optimized cloud infrastructure.

Wound Detection Stack

- Architected a **Full Stack WebApp** depending on a Machine Learning model with **Angular** for frontend and **Django** TechStack for backend resulting in a **20%** improvement in application performance due to **REST API** calls.
- Developed the CNN model using Bag of words approach, **Image Segmentation** using U-net with model showing a pixel accuracy of 99.14 and dice score of 0.83, **Computer Vision** and a dataset of 878 training images and 278 validation images.

Video Captioning model using Deep Learning

- Devised a **Deep learning model** operating on an end-to-end **Sequence-to-Sequence model** with **Masked Transformer** relying on an encoder-decoder architecture consisting of two Recurrent Neural Networks (RNNs).
- Created a model that inputs video from online platforms Twitter, Youtube etc and generates captions using S2VT architecture, an MSVD dataset consisting of **1450** short clips grasping 80 frames per short clip, accommodating a **40%** increase in dataset.
- Launched Webapp with **FLASK** Python webapp framework which outputs captions of video as well as audio using Google text-to-speech API for blind people thereby contributing to a **50%** growth in active users.