

# Amal Jose

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## EDUCATION

Viterbi School of Engineering, University of Southern California, Los Angeles

May 2023

Master of Science - Computer Science

National Institute of Technology, Calicut

May 2018

Bachelor of Technology - Computer Science and Engineering

## SKILLS

**Programming Languages:** Javascript, Python, C, C++, Java, Swift

**Frontend Development:** React, CSS5, Styled-components, JQuery, Angular, Jest, Enzyme, Selenium, Webdriver.io

**API Development:** NodeJS, Springboot, MongoDB, Cloud Firestore, PostgreSQL, MySQL, OrientDB

**DevOps:** AWS, Google Cloud, Azure, Firebase, Jenkins, TeamCity

**UX Tools:** Figma, Sketch, Miro

**Others:** NLTK, Dialogflow, ReactVR, iOS, Progressive Web Apps, Cordova

## WORK EXPERIENCE

**USC School of Pharmacy** - Los Angeles, California

October 2021 - May 2023

UI/UX Developer

• **Scholarly Projects** - Python, Django, Jinja, CSS

Maintained a research project management tool, making database changes as per requirements and adding new features such as submitting and reviewing new project ideas. This replaces the existing spreadsheet method of collecting ideas, encouraging more students to submit ideas.

• **ECases** - React, styled-components, Figma

Designed wireframes and implemented a eCase building tool replacing Twine, eliminating the need for Pharmacy professors to code in Harlowe.

**Tesco** - Bengaluru, Karnataka

July 2018 - July 2021

Software Development Engineer (Frontend)

• **MyProduct Promotions** - NodeJS, React, styled-components, Jest, Enzyme, Redis

Implemented middleware, user interface, cache system and test automation suite for the discount management module to handle supplier and retailer promotions used by colleagues at Tesco, **reducing the number of duplicate and stale promotions at Tesco by 60%**.

• **Unified Dashboard** - React, styled-components, NodeJS, MongoDB, Jest, Enzyme

Solely developed an entire project tracking dashboard for unified visualization and analysis of stories, code quality, app health and user experience metrics and support processes in single view. This **eliminated time spent** in accessing multiple webpages to get information, improving workflows.

• **MyEveryday Conversations** - React, styled-components, NodeJS, PostgreSQL

Built conversation logger for the HR team to manage regular and ad-hoc meetings between Tesco colleagues and their managers **increasing engagement by 30%**. This also kept track of the Performance Improvement Plans of employees and their conversations in one place.

• **Beans** - React, Jest, Enzyme

Contributed to in-house react component library by developing components including table, calendar and data views.

• **ProductGroupIDMatcher** - React, styled-components, Python, Flask, scikit-learn

Built an AI tool that automated categorization of inventory products to speed adding new entities to the system by 60% and reduce errors by 20%.

## INTERNSHIPS

**Guidewire Software** - San Mateo, California

May 2022 - August 2022

Full Stack Engineer Intern

• **Guidewire Live, Risk Assessment Admin** - React, styled-components, Figma, axe-tools, Jest, Enzyme, Spring

Upgraded an existing Angular 1.6 application to React by **prototyping** in Figma, using in-house component libraries, **eliminating** security vulnerabilities and **restructuring** Spring APIs making the application accessible to a larger client base

**Goldman Sachs** - Bengaluru, Karnataka

May 2017 - August 2017

Summer Analyst Intern

• **Database Migration** - Java, Gremlin, Groovy, OrientDB

Rewired APIs to use OrientDB instead of neo4j in an existing application to improve GraphDB performance and **evaluated** benchmarks of the system before and after the migration

## PROJECTS

• **Market Sentiment** - React, styled-components, FastAPI - [marketsentiment.live](https://marketsentiment.live)

Implemented a live sentiment analysis and visualization dashboard that periodically checks stock ticker mentions in Twitter tweets to analyze their sentiments and provide insights for stock trading.

• **Create Styled React Component** - JS, React, styled-components, Jest - [amaljose96.create-styled-react-component](https://github.com/amaljose96/create-styled-react-component)

Published a Visual Studio Code extension to aid in faster frontend development using React styled components through creation of boiler-plate code that includes files for styling and unit tests.

## LEADERSHIP EXPERIENCE

• CS Department Senator, **Viterbi Graduate Student Association (VGSA)**, USC

September 2021 - May 2023

• Executive Board Member and Photographer, **Association of Indian Students (AIS)**, USC

September 2022 - May 2023