Julius Dsouza

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Experience

Apple
California, USA

Software Engineer
January 2024 - Present

- Led the migration a large-scale application from Webpack to Vite, achieving a 60% reduction in production build time and a 20% optimization in bundle size, while enhancing application performance and developer efficiency.
- Engineered and led the development of 10+ components and user flows for the Apple Store and Home applications using React, Redux, TypeScript, Sass, and the WeChat mini-program framework.
- Leveraged Jest and Storybook to boost test coverage of a React application by 20%, and integrated Adobe Analytics, increasing data accuracy for marketing decisions by 25% through detailed event tracking and user behavior analysis.
- Orchestrated and refined dynamic server-side templates with Apache Velocity Template Language to generate custom, data-driven content for various user flows, resulting in a 20% improvement in rendering.

Centene Corporation
California, USA

Application Development Engineer 1
October 2023 - December 2023

- Led the development of a log monitoring and analytics feature for the AmBetter Mobile App, to accelerate real-time troubleshooting. Achieved a 40% reduction in incident resolution time and deployed the solution using AWS Lambda to store logs using an S3 bucket.
- Collaborated with the design team to create and implement a design system using the gluestick-ui library for 7+ crucial components to streamline the development process and maintain a consistent design.

Abbott Laboratories
California, USA

Software Engineer
April 2023 - October 2023

- Devised UI features for Lingo, a cross-platform application using React Native and TypeScript, and conducted automated testing with Jest and Appium, resulting in a 25% reduction in crashes and enhanced user experience.
- Designed and implemented REST and GraphQL APIs to optimize query mechanisms for a sensor monitoring dashboard, decreasing data retrieval time by 31% and enabling faster access to key product metrics.
- Enhanced data precision by integrating Adobe Analytics with the Lingo app, resulting in a 40% increase in data accuracy, and informed data-driven decision-making.

National Basketball Association
New York, USA

Software Engineer Intern
June 2022 - August 2022

- Engineered a bug reporting tool for the NBA Application for Smart TVs using the Azure DevOps REST API, and streamlined the reporting process, leading to a 30% reduction in operational overhead and improving issue resolution efficiency.
- Constructed 5+ custom components and hooks for a Next.js app, enabled personalized content, targeted recommendations, and push notifications.

KPMG
Bengaluru, India

Analyst
July 2018 - August 2020

- Spearheaded the development of a library portal for the Digital Automation team, driving a 12% increase in monthly active user engagements across 14 cities.
- Built a MERN stack web application and integrated an Object Detection Model to extract details from purchase and sales receipts, achieving a 38% reduction in duplicate and incorrect entries, and improved data accuracy.
- Collaborated with HR to create interactive walkthroughs and custom task lists for an onboarding application, resulting in a 27% reduction in onboarding time for new employees.
- Actively participated in Machine Learning projects by assisting in data pre-processing, model training, and evaluation, contributing to the development of accurate predictive models and achieving a 15% improvement in prediction accuracy.

Honeywell Technology Solutions
Bengaluru, India

Software Development Intern
January 2018 - June 2018

- Created a visually engaging landing page for the Digital Technology Team, incorporating interactive elements, resulting in a 23% increase in conversion rate, and a 55% click-through rate.
- Streamlined the vendor purchase tracking process with a real-time expense visibility web application, achieving a 19% reduction in overhead costs, and improved overall efficiency.
- Developed custom data pipelines with Python, Pandas, and Apache Airflow, automating data extraction and transformation processes, reducing data preparation time by 35%.

Education

New York University   New York, USA
MSc in Computer Engineering   *January 2021 - December 2022*
- Lead Teaching Assistant for "CS-GY 9053: Intro to Java"
- **Courses:** Machine Learning, Deep Learning, Machine Learning in Cyber Security, Network Security, Data Engineering, Internet Architecture and Protocols, Java

Manipal Academy of Higher Education   Karnataka, India
BTech in Computer Science   *August 2014 - May 2018*
- Minored in Intelligent Systems
- President of MIT Student Research Forum
- Member of Rotaract

Skills

Programming Languages	Python, Java, C, JavaScript(ES6), TypeScript, SQL, Bash, PHP, Swift, Kotlin
Web Development Stack	React.js, Redux, React Native, Node.js, Next.js, Django, Flask, Express.js, HTML, CSS, Jest, Selenium, WXML
Technologies	Git, AWS, Azure DevOps, Docker, Spring, MongoDB, MySQL, PostgreSQL, CI/CD, Apache Velocity
Machine Learning Libraries	Scikit-Learn, TensorFlow, Keras, Pytorch