ROSHAN JACOB MANOJ

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EDUCATION

Arizona State University, Tempe, USA   August 2022 – May 2024
Masters of Science in Computer Science (GPA: 4/4)
Relevant Courses: *Data Processing at Scale, Data Visualization, Semantic Web Mining, Data Mining, Digital Video Processing*

Manipal Institute of Technology, Manipal, India   July 2017 – July 2021
Bachelor of Technology in Computer Science and Engineering (GPA: 3.7/4)
Relevant Courses: *Data Structure & Algorithms, Computer Networks, Object Oriented Programming, Operating System, Big Data Analytic.*

TECHNICAL SKILLS

Programming Languages	:	Java, C, C++, Python, JavaScript, HTML
Databases	:	MySQL, PostgreSQL, NoSQL
Libraries & Frameworks	:	Spring Boot, Flask, ReactJS, CSS, Material, Bootstrap, Redux, React Router, Axios, Three.js, D3.js, Flutter
Tools & Technology	:	Git, Gitlab, Bitbucket, Android, Docker, Jenkins, Hashicorp, BIRT

PROFESSIONAL EXPERIENCE

Lumen Technology   June 2023 – August 2023
Development & Operations Engineer Intern   *Tempe, Arizona*
- Instituted APIs to automate 25% of reporting outage workflows utilizing Spring, UIPath, and Microsoft Graph API.
- Utilized Spring Boot services and JavaServer Pages to enable access management of 20+ operation API endpoints.
- Enhanced authentication and authorization of a portal serving 1000+ employees using Spring Security and JSON Web Tokens.

Standard Chartered Bank   August 2021 – July 2022
Software Developer   *Bangalore, India*
- Overhauled legacy portfolio management application catering to 1M+ clients, using React and Spring boot.
- Improved application efficiency by 75% using Redux Thunk middleware with Axios for handling asynchronous actions.
- Spearheaded integration of Hashicorp vault for secure database connection serving 45+ microservice architectures.
- Leveraged Java Persistence API specifications in Spring for filtering, sorting, and pagination of 1M+ records in less than 250ms.
- Automated clients' investment reports by integrating BIRT in Spring supporting 50+ architectures.

Standard Chartered Bank   May 2020 – July 2020
Full Stack Mobile Developer Intern   *Chennai, India*
- Engineered a finance management mobile application automating financial tracking by 75% using Flutter, Python Flask & SQL.
- Analyzed preference data collected to integrate a recommendation engine, resulting in a 20% increase in click-through rates.
- Integrated features like push notification, deep linking, and charts to enhance user experience improving user retention by 14%.

RELEVANT PROJECTS

Khayaal (A vision) | **User Base: 2000+** | *React, Firebase, Godaddy, Firebase Hosting, Git*
- Created a website for an NGO improving customer acquisition by more than 100%, built using React.js and Firebase.
- Introduced features such as animations using Framer Motion and payment integration with RazorPay API.
- Automated deployment using Github Actions to reduce the deployment time by 45%.

Ohio Economic Growth Visualization | *HTML, CSS, JavaScript, Three.js, Git*
- Designed & developed a dashboard, visualizing a 15M-record dataset of Ohio citizens' life, showcasing 2% economic fall.
- Leveraged Three.js to implement advanced density and circular plots, highlighting a direct correlation between education and a 15% improvement in financial strength.
- Implemented efficient state management system in Vanilla JavaScript, reducing overall latency to 600ms.

Heimdall | *Flutter, TensorFlow, Keras, Twilio API, Git*
- Innovated a cross-platform mobile application to predict affected locations of earthquake aftershocks with an ROC score of 0.8455 and further notify users through text message.
- Achieved 4th position in Microsoft Code.Fun.Do competition in collaboration with Manipal Institute of Technology.

PUBLICATIONS

- "Viability of an App for Auditory Training in Adults with Hearing Impairments." Indian Journal of Otolaryngology, 2023. (DOI)
- "Pattern-Based Syntactic Simplification of Compound and Complex Sentences." IEEE Access, vol. 10, 2022, pp. 53290–53306. (DOI)