Noyal Joseph Binu

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SUMMARY

Accomplished **Full-Stack Developer & Front-End Developer** and **Team Lead** with expertise in developing scalable, **user-focused solutions** across diverse technologies. Proven track record in building **responsive web** and **mobile applications** using **Angular**, **React**, **React Native**, and **FlutterFlow**, alongside robust **backend development** with **Node.js** and **Express**. Adept at leveraging **cloud automation**, **Agile methodologies**, and collaborative **problem solving** to drive project success while leading high-performance teams.

EDUCATION

Illinois Institute of Technology, Chicago **Aug 2023 - May 2025**
Master of Science in Computer Science,

APJ Abdul Kalam Technological University, Kochi, India **Aug 2016 - Sep 2020**
Bachelor of Technology in Electrical and Electronics Engineering

SKILLS

- **Programming Languages:** JavaScript (ES6+), TypeScript, HTML5, CSS3, jQuery, SCSS,
- **Frontend Technologies:** React.js, Next.js, Angular, Vue.js, React Native, FlutterFlow
- **State Management:** Redux, Recoil, Zustand
- **Performance Optimization:** Rendering latency reduction, code modularity, accessibility compliance, cross-browser compatibility
- **Build Tools & Bundlers:** Webpack, Babel, Rollup, Gulp, Vite, D3, Jira, Confluence, InVision
- **Backend & API Integration:** Node.js, Express.js, RESTful APIs, GraphQL, WebSockets
- **UI/UX & Design Systems:** Material UI, Tailwind CSS, Figma integration
- **Software Architecture:** Multi-tier application architecture, SSR, microservices integration, Agile
- **Version Control & CI/CD:** Git, GitHub Actions, Jenkins, Docker
- **Agile & Collaboration:** Scrum, cross-functional teamwork, product ownership, problem-solving

WORK EXPERIENCE

React Native Front-End Lead - *BreatheIT Solutions Inc* **Oct 2024 - Present**
- **Team Leadership & Transformation:** Led a team of **8 developers** in transitioning a **mobile application** from a **FlutterFlow prototype** to a fully developed **React Native** platform, significantly enhancing **performance** and **maintainability**.
- **API Integration Excellence:** Implemented **API integrations** using **Axios**, reducing **network latency** and ensuring more reliable **data handling** compared to legacy methods.
- Designed and implemented **modular**, **reusable** components, improving development **speed by 30%** and maintaining consistency across the app.
- Successfully deployed the new version to **production** on both the **App Store** and **Play Store** within **3 months**, accelerating user adoption and delivering enhanced functionality.
- Conducted **code reviews** and optimized **application performance**, reducing **load times by 30%** and improving user satisfaction.

Full Stack Engineer - *Tata consultancy services* **Oct 2022 - Jul 2023**
- Developed and optimized full-stack applications with **Node.js** and **React**, focusing on seamless data handling and intuitive design to enhance user experiences.
- Implemented secure **API integrations** and managed data storage with **PostgreSQL** on **AWS**, boosting data accessibility and system security.
- Engineered **responsive**, **modular components** that significantly improved **user experience** and application **performance**.
- Streamlined development through **Agile methodologies** and **CI/CD pipelines**, boosting team productivity and reducing deployment times.

Front End Developer - *Tata consultancy services* **Oct 2020 - Oct 2022**
- Spearheaded the development of **data-driven web applications** using **Angular**, **HTML**, **CSS**, **TypeScript**, **JavaScript**, and **jQuery**, driving measurable improvements in **user engagement**.
- Leveraged **Jira**, **Confluence**, **Git**, **SCSS**, and **InVision** for enhanced **project management** and **collaborative development**, reducing project delays.
- Developed accessible and **responsive interfaces** that elevated **usability** and **customer satisfaction**
- Implemented performance enhancements that reduced **load times** and increased overall **scalability** of web applications.

PROJECTS

Advanced Time Series Analysis for Repository Management **Aug 2023 - Dec 2023**
- Implemented sophisticated time series forecasting models using **TensorFlow/Keras LSTM, Facebook/Prophet**, and **StatsModels**; achieved a 15% increase in sales forecasting accuracy.
- Analyzed **Angular** and **OpenAI** repositories, achieving a 20% enhancement in issue tracking efficiency through predictive analytics.
- Utilized **Python** and **Power BI** for data analysis and visualization, achieving a 20% improvement in issue tracking for **Angular** and **OpenAI** repositories.

Biomedical Image Segmentation using U-Net Architecture **Aug 2024 - Dec 2024**
- This project addresses a critical need in the medical domain, demonstrating advanced technical skills in neural network architectures and biomedical applications. Its potential to aid in medical diagnosis, treatment planning, and research underscores its real-world significance.
- **Key Technologies and Skills**: U-Net, Stochastic Gradient Descent, Elastic Deformations, Weighted Loss Functions.
- **Impact Areas**: Healthcare, medical imaging, and AI-based diagnostics.

PUBLICATIONS

Publisher : Institute of Electrical and Electronics Engineers (**IEEE**)
Title : [**Artificial Intelligence Based Phonocardiogram Proposed for Cardiac Screening of School Children | IEEE Conference Publication**](#)
Conference : 2020 International Conference on Futuristic Technologies in Control Systems & Renewable Energy (ICFCR)