MATHI YUVARAJAN T.K

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OBJECTIVE

A specialized software engineer with expertise in embedded mobility corporate training and a strong background in product development, including full-stack web development, mobile app development, and DevOps.I'm committed to using my diverse skills to enhance innovation and excellence in software projects.

EDUCATION

B.E Electrical Electronics Engineer, KCG College of Technology , Chennai   **CGPA: 8.8**   2019 - 2023

SKILLS

Programming Languages: C, C++, Java, Javascript, Dart, Python

Coding Style: Baremetal Programming, Functional Programming, Object Oriented Programming

Devops: Vagrant,VMs,Linux servers , Bash Scripting , AWS ,Maven ,CICD with Jenkins

Mobile Development: Flutter

Web Development: React JS (library), UI Development (HTML, CSS, SCSS, LESS, JQuery, Tailwind CSS)

Version Control: Git

Databases: MySQL, MongoDB, Firestore (Firebase)

Design Tools: Figma, Adobe XD, Adobe Photoshop

Project Management Tools: JIRA, Trello

EXPERIENCE

Embedded Software Engineer   July 2023 - Sep 2023
Bosch Global Software Technologies   *Coimbatore, TamilNadu*

- Trained and guided 18 associates in embedded mobility, covering basics to advanced levels of C and C++ programming and Object-Oriented Programming (OOP) and ARM Cortex.
- Provided practical training in STM32 development kit bare-metal coding and instructed on common communication protocols like SPI, USART, CAN, LIN, and Ethernet.
- Covered essential automotive standards and technologies such as AUTOSAR (Automotive Open System Architecture), UDS (Unified Diagnostic Services), and functional safety, ensuring associates readiness to work on cutting-edge automotive projects.
- Taught the principles of DevOps, emphasizing Continuous Integration and Continuous Deployment (CI/CD), and guided them on being effective DevOps professionals in real-world production-level projects.

Product Engineer   July 2022 - July 2023
CodingMart Technologies   *Coimbatore, TamilNadu*

- Successfully migrated the 'TheSimplyNews' Flutter app to the BLoC state management library. This involved reorganizing the codebase to adhere to Clean Architecture principles, separating the business logic (back-end) from the user interface (UI), resulting in a more maintainable and scalable application structure.
- Expanded the functionality of the SimplyNews app's admin panel by introducing a range of new features and enhancements. This demonstrated proficiency in frontend development and usability improvements, ultimately delivering a more feature-rich and user-friendly experience.

- Created a LinkedIn (professional networking platform) , Groww (investment platform) ,Swiggy (Online Food Delivery) clone using Flutter and React JS, featuring user authentication, profile management, connection handling, and a news feed. Leveraged Flutter tools for a polished, responsive UI, gaining valuable mobile app development experience with API integration.
- Demonstrated expertise in Figma by developing Design Tokens and effectively applying UI/UX Laws during the redesign of the IRCTC Mobile App. IRCTC Redesign URL

Product Designer   July 2023
Freelance   *Coimbatore, TamilNadu*

- I have experience in crafting a comprehensive UI design for Wayzapp, a small-scale startup located in Coimbatore. This involved the creation of a responsive user interface and user experience, showcasing my proficiency in design and attention to detail. Link : Wayzapp Design URL

PERSONAL PROJECTS

WorkSphere: (LinkedIn Inspired Project) Developed a captivating LinkedIn clone using Flutter and integrated Firebase as the backend. Throughout the project, I implemented various features such as on-the-air updates, push notification services, and CI/CD using Codemagic. The app was successfully deployed with these enhanced functionalities, providing an exceptional user experience. (Visit here)

Wealthify: (Building a Groww-like App) Developed a Groww stock market app clone with Flutter, incorporating investment charts and integrating it with a Node.js backend. Implemented robust authentication and leveraged Node.js sockets for real-time stock market updates. (Visit here)

FoodHub: (Swiggy-Inspired Food Delivery Clone) Developed a high-fidelity Swiggy clone, known as Foodhub, using React.js and React Router Dom. Leveraged the power of React Suspense, lazy loading, and on-demand rendering techniques to optimize performance. Employed Redux for efficient state management, ensuring scalability. Created a seamless food ordering experience similar to Swiggy, offering users a reliable and user-friendly platform. (Visit here)

ACHIEVEMENTS

- **AICTE Vishwakarma Awards 2020 :** Our team earned national recognition by winning the AICTE Vishwakarma Awards for our innovative solution addressing women's safety. We designed a multifunctional device—a taser gun integrated into a power bank—for self-defense. Additionally, we developed a full-stack software solution to monitor and prevent harassment. We received the award from India's Education Minister, Shri Dharmendra Pradhan, at the AICTE headquarters in Delhi, highlighting our ability to turn ideas into impactful solutions

- **AICTE Lilavati Awards 2022 :** Our team won the 1st prize of 1 lakh rupees at the AICTE Lilavati Awards 2022. We showcased an innovative Proof of Concept—a taser gun for public safety. We conducted public demonstrations, organized a cyberbullying workshop for 20 schools in Chennai, and provided martial arts training to empower women. The award was presented by Smriti Irani, the Union Minister for Women and Child Development, at the AICTE Headquarters in Delhi

- **KCG Software Hackathon:** Our team achieved the first prize at the KCG 48 hours Internal Hackathon 2021 (Software Edition). We showcased our exceptional skills, teamwork, and problem-solving abilities during the intense competition. Our innovative software solution impressed the judges and earned us this prestigious recognition.

LEADERSHIP

- **Head of Programming Club :** I've been teaching programming, data structures, algorithms, and mobile development to students in the Programming Clubs at my college.

- **Coding Tutor** : Conducted personalized online and offline coding lessons for students in grades 10, 11, 12, and engineering students.