

Vinuth Babu Kalmidi

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Summary

Software Engineer with proficiency in full-stack development and over 2 years of experience. Expert in developing high-quality applications through collaboration with design and product teams at Byju's. Developed scalable, user-centric solutions enhancing business outcomes by significant measures.

Education

Syracuse University

May 2025

Master's, Computer Engineering

- **Coursework:** Advanced Data Structures & Algorithms, Object Oriented Design, Introduction to System on-Chip Design, Advanced Computer Architecture, Natural Language Processing, Biometrics

Experience

Byju's

Oct 2021 - Mar 2023

Software Engineer, web development

Bangalore, India

- Developed high-quality applications leveraging design patterns and TDD methodologies for Loan Management Systems, improving user-centric design and system effectiveness.
- Engaged in the full application lifecycle using Node.js and event-driven architecture, leading to improved scalability and compliance in key projects.
- Engineered a fully automated Green Channel loan approval workflow by eliminating manual intervention, reducing processing time by over 40%, and enabling faster loan disbursements.
- Developed a dynamic resource-based job assignment platform that auto-distributes loan tasks by availability and skillset, boosting operational efficiency by 30% and reducing SLA violations.
- Led system integrations with major financial institutions like CreditSaison, Propelld, and FinancePeer, enabling unified loan origination and cutting onboarding time by 25% via API synchronization.
- Delivered secure, production-grade API integrations to embed ABFL's foreclosure and recovery workflows, improving compliance, minimizing manual errors by 35%, and ensuring data consistency.
- Refactored and optimized Byju's loan servicing backend with Node.js RESTful APIs, leading to a 50% improvement in system response times during peak load periods, while maintaining clean and testable code structures.

TechCiti Technologies Private Limited

Mar 2021 - May 2021

Intern, Front End

Bangalore, India

- Collaborated with a cross-functional team to design and develop a responsive, full-stack web application using React, emphasizing reusable UI components and modern web technologies like HTML and CSS to enhance user experience.
- Gained hands-on experience in database schema design, RESTful API integration, and CI/CD deployment workflows, ensuring timely delivery of a stable and scalable application with maintainable, testable code.

Projects

IoT-Based Smart Parking System with Dynamic Pricing

Jan 2025 - May 2025

- Developed a smart parking system using ESP32 and ultrasonic sensors for real-time slot detection, integrated with AWS IoT Core via MQTT, and implemented a Python-based dynamic pricing engine to optimize parking revenue, reduce congestion, and enable scalable deployment in smart urban infrastructure.

TechNERD

Sep 2024 - Dec 2024

- Designed an NLP pipeline using RoBERTa for Named Entity Recognition (74% cosine similarity) and ML models like Linear Regression (MSE: 9.11) for engagement prediction on Stack Exchange posts, uncovering a post-2021 shift toward AI-driven discussions and enhancing content discoverability.

Airline Management System with Integrated Weather API

Jan 2024 - May 2024

- Developed an object-oriented airline management system featuring real-time weather API integration to enhance flight safety and customer experience, supported by SRS documentation, CRC cards, and UML diagrams to demonstrate software design, system coordination, and agile development practices.

Technical Skills

- **Languages:** JavaScript, C++, Python, C
- **Frameworks & Libraries:** React.js, Node.js, Redux, Object Oriented JavaScript Frameworks
- **Web Technologies:** HTML, CSS, Bootstrap
- **Databases:** MongoDB, PostgreSQL, SQL
- **Tools & Platforms:** Git, Docker, Postman, VS Code, Jupyter Notebook, pgAdmin, Figma
- **Development:** RESTful APIs, Microservices, Automation, Kafka, API design, Unit testing techniques, Performance debugging, Building web applications, Reusable UI components, Event-Driven Architecture, Application Design Patterns, Test-Driven Development, User Experience, Testing Strategies, Continuous Integration, Continuous Deployment.