

# Vinuth Babu Kalmidi

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## Summary

Full Stack Software Engineer with over 2+ years of experience developing scalable FinTech, ML, NLP, and IoT systems. Skilled in JavaScript, Python, React, Node.js, and microservices, with a proven record of building RESTful APIs and improving backend systems. Successfully led projects that reduced processing time by 40% and increased operational efficiency by 30%. Eager to apply expertise in cloud platforms and Agile methodologies to develop high-performance solutions.

## Technical Skills

- Languages:** JavaScript, C++, Python, C, Go
- Frontend:** React.js, Redux, HTML, CSS, Bootstrap, REST APIs
- Backend:** Node.js, Express.js, RESTful APIs, Microservices, API Integrations, Automation
- Databases:** MongoDB, PostgreSQL, SQL
- Cloud/DevOps:** Docker, AWS, Git, CI/CD
- Tools:** Postman, VS Code, Jupyter, pgAdmin, Figma
- Machine Learning/NLP:** Scikit-learn, Transformers, Pandas, NumPy, NLP Pipelines

## Experience

### Byju's

**Oct 2021 - Mar 2023**

*Software Engineer,*

*Bangalore, India*

- Designed and developed scalable loan management systems using React.js, Node.js, Express, and microservices architecture, enhancing client onboarding workflows and backend performance.
- Engineered an automated loan approval workflow (Green Channel) and a dynamic job allocation system using Node.js, MongoDB, and RESTful APIs, reducing processing time by 40% and improving operational efficiency by 30%.
- Led backend development of RESTful APIs and microservices, integrating with financial partners like CreditSaison, Propelld, and FinancePeer, cutting partner onboarding time by 25% while leveraging API integrations, PostgreSQL, and secure authentication mechanisms.
- Delivered secure, production-grade financial APIs for foreclosure and recovery workflows using Node.js, Express, and PostgreSQL, improving compliance, enhancing data integrity, and reducing manual errors by 35%.

### TechCiti Technologies Private Limited

**Mar 2021 - May 2021**

*Intern,*

*Bangalore, India*

- Developed a full-stack web application using React.js (frontend) and Node.js with Express (backend), collaborating with cross-functional teams to deliver key product features.
- Built responsive UI components with React.js and Bootstrap, and developed backend services with Node.js, Express, and MongoDB, ensuring smooth data flow and functionality.
- Designed MongoDB schemas and implemented RESTful APIs, enabling reliable backend operations and scalable data management.
- Set up CI/CD pipelines using Git and GitHub Actions, streamlining deployments, reducing manual errors, and improving release efficiency.

## Technical Projects

### IoT-Based Smart Parking System with Dynamic Pricing

**Jan 2025 - May 2025**

- Developed an IoT-based parking system using ESP32, ultrasonic sensors, AWS IoT Core (MQTT), and a Python-based dynamic pricing engine to enable real-time slot detection, optimize revenue, and reduce congestion.

### TechNERD

**Sep 2024 - Dec 2024**

- Built an NLP pipeline with RoBERTa (74% cosine similarity) and a predictive model (Linear Regression, MSE: 9.11) for engagement forecasting, applying data preprocessing, model development, and analysis on Stack Exchange datasets.

### Airline Management System with Integrated Weather API

**Jan 2024 - May 2024**

- Created a flight management system with real-time Weather API integration, leveraging OOP principles for scheduling, operational management, and error handling, supported by detailed design documentation (UML, CRC, SRS).

## Education

### Syracuse University

**Aug 2023 - May 2025**

*Master's, Computer Engineering,*

*Syracuse, NY*

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