Vinuth Kalmidi

Software Engineer

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SKILLS

Programming Languages :   JavaScript, C++, Python, C, Go
Frontend Development :   React.js, Redux, HTML, CSS, Bootstrap, REST APIs, Tailwind css
Backend Development :   Node.js, Express.js, RESTful APIs, Microservices, API Integrations, Automation
Database & Cloud :   MongoDB, PostgreSQL, SQL, AWS, Google Cloud
Tools & Technologies :   Docker, Git, CI/CD, Github action, Postman, Apache Kafka

EXPERIENCE

Research Intern   Jun '25 — Present
Syracuse University   United States
- Currently developing an end-to-end automated job application system capable of parsing resumes, scraping job listings, and generating tailored application documents.
- Designing backend APIs with Python (Flask/FastAPI) to handle resume parsing, job scraping, and filtering based on user preferences and skills.
- Integrating large language models such as OpenAI GPT to generate personalized resumes and cover letters for each job dynamically.
- Building a React-based frontend to display job listings, job details, and provide downloadable, tailored documents.

Software Engineer   Oct '21 — Mar '23
BYJU'S   India
- Designed and developed scalable loan management systems using React.js, Node.js, Express, and microservices architecture, enhancing client onboarding workflows and backend performance.
- Developed an automated loan approval process (Green Channel) and a dynamic job distribution system using Node.js, MongoDB, and RESTful APIs, cutting processing time by 40% and boosting operational efficiency by 30%.
- Led backend development of RESTful APIs and microservices, collaborating with financial partners, reducing onboarding time by 25% through API integrations, PostgreSQL, and secure authentication methods.
- 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%.

Intern   Mar '21 — May '21
TechCiti Technologies Private Limited   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 to streamline deployments, reduce manual errors, and improve release efficiency.

EDUCATION

Master's in Computer Engineering, Syracuse University   Aug '23 — May '25
Bachelor of Engineering in Information Science, BNM Institute of Technology   Aug '17 — Aug '21

TECHNICAL PROJECTS

IoT-Based Smart Parking System   Jan '25 — May '25
- Built an IoT parking solution with dynamic pricing using ultrasonic sensors and MQTT via AWS IoT Core.
- Engineered Python-based pricing logic to optimize revenue and reduce congestion through real-time detection.

TechNERD   Sep '24 — Dec '24
- Developed an NLP pipeline using RoBERTa to extract topic vectors (74% cosine similarity) from Stack Exchange data.
- Implemented predictive engagement modeling with Linear Regression (MSE: 9.11) for insight forecasting.

Airline Management System   Jan '24 — May '24
- Developed a flight management system with an integrated real-time Weather API to support dynamic scheduling.
- Applied OOP principles and created comprehensive documentation (UML, CRC, SRS) to support system design, functionality, and error handling

Dev Insights   Sep '23 — Dec '23
- Built a web-based dashboard that analyzes developer trends by integrating real-time data from Stack Overflow and GitHub APIs, enabling dynamic insights into programming language popularity and technology usage.
- Designed and implemented interactive visualizations to display trends, hot technologies, and community engagement patterns, helping users understand evolving developer interests and activity.