

VINOD N PATIL

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Summary

Backend-focused Software Engineer with 2 years of experience building scalable, cloud-native microservices and REST APIs using Node.js, Express, and MongoDB. Hands-on with AWS (Lambda, API Gateway, EC2, S3) and security best practices (OWASP Top 10, Snyk). Collaborative in Agile teams, with experience shipping MVPs fast and hardening production systems.

Experience

AUM Technical Services

Nov 2025 – Present

Software Engineer L1

Remote, India

- Developed and integrated backend services and APIs for internal enterprise applications.
- Worked on API configuration, testing, and validation to ensure secure and reliable system communication.
- Assisted in debugging and resolving server-side issues related to authentication, requests, and responses.
- Collaborated with team members to document, standardize, and prepare integrations for deployment.

Resify India

March 2025 – Jun 2025

Backend Developer & CTO

Hubli, India

- Built and scaled Resify's core platform that helps researchers get faster, AI-driven feedback on their papers from grammar to journal fit.
- Designed a secure, cloud-native backend system using Node.js and MongoDB, tested against OWASP standards using Snyk for vulnerability scanning.
- Worked closely with the team to launch our MVP in just a few months, helping us onboard early users and start making real impact in the academic space.

RightsApp

Dec 2024 – Feb 2025

Backend Developer

Remote, India

- Developed scalable backend modules for a social media platform using Node.js, Express, and MongoDB, with clean architecture and modular APIs.
- Deployed backend services to AWS EC2 and handled S3 integration for media content.
- Collaborated with senior developers on chat system integration via Firebase, participating in testing and bug fixes.

Pravinya Infotech

Jan 2024 – May 2024

Full Stack Developer Intern

Hubli, India

- Led development of a dynamic real estate website for property listings (rent/sale).
- Built responsive frontend with React & Tailwind; backend APIs using Node.js & MongoDB.
- Integrated Firebase & JWT for secure user authentication and session handling.

Projects

RightsApp-API | MongoDB, Express, Node.js, OAuth, AWS (S3, EC2), Firebase

Live Link

- Engineered RESTful APIs for user authentication, posts, and comments with full CRUD capabilities using Node.js and MongoDB.
- Integrated AWS S3 for file uploads and Firebase for real-time messaging functionality.
- Emphasized modularity and performance with well-structured backend architecture.

Customer Churn Prediction System | Next.js, FastAPI, Scikit-learn, Python

Live Link

- Built a machine learning backend using FastAPI to perform batch churn prediction on customer data.
- Implemented a Next.js dashboard to visualize churn risk, summary metrics, and customer-level predictions.
- Designed CSV-based inference workflow and integrated probabilistic risk scoring for business analysis.

Reality Endeavors | MongoDB, Express, React, Node.js, Firebase

Live Link

- Built a modern real estate marketplace using the MERN stack, with FirebaseAuth and JWT for secure authentication and personalized user flows.
- Integrated Redux Toolkit for smooth state management, enabling full CRUD operations, advanced property search, and listing controls.
- Deployed and scaled the app with 22+ onboarded users, validating product adoption and real-world usability.

Achievements & Honors

- Published computer vision research at internationally renowned, peer-reviewed venues (CVPR Workshop).
- Secured a top 8 global position in the MIPI Night-Time Flare Removal Challenge, competing with industry research teams (1st: Xiaomi China, 2nd: Samsung Research China).
- Selected for highly competitive summer schools at premier institutions including IIT Delhi and IIIT Hyderabad.

Technical Skills

Languages: Python, TypeScript, JavaScript, HTML, CSS, Java
Frameworks/Libraries: Node.js, Express.js, React.js, Next.js, Tailwind CSS, Redux Toolkit, FastAPI
Backend & APIs: REST APIs, Authentication & Authorization, OAuth, JWT, HTTP/HTTPS
Tools/Platforms: Git, GitHub, Docker, Postman, VS Code, Figma, Insomnia, Snyk, WSO2 API Manager
Cloud/Infra: AWS (S3, EC2, Lambda, Amplify), Firebase, Google Cloud Platform
Other: Linux, Razorpay, Clerk, ES6+, React Context API, Web Performance Optimization, Jest, React Testing Library, Machine Learning

Education

KLE Technological University <i>Bachelor of Engineering in Electronics and Communication (7.48 CGPA)</i>	Jan 2020 – May 2024 <i>Hubli, Karnataka</i>
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