

Devki Nandan Malav

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EDUCATION

Indian Institute of Technology Bombay

Bachelor of Technology in Computer Science and Engineering

Mumbai, Maharashtra, India

July 2017 - May 2021

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, Go, SQL, JavaScript, Bash Scripting

Web Technologies: Node.js, Express, Django, RESTful APIs, HTML, CSS

Databases: MongoDB, PostgreSQL, MySQL

Cloud & DevOps: AWS (EC2, S3, Lambda, CloudWatch), Docker, Kubernetes, CI/CD pipelines, Git

Others: Microservices Architecture, Kafka, Redis, Design Patterns, Agile/Scrum, Jira, Test-Driven Development

WORK EXPERIENCE

Software Engineer 2

Fincent, Karnataka, India

July 2023 - Present

- Deployed Stripe webhook system for real-time events, automating actions using Node.js and implementing security protocols for SOC2 compliance.
- Integrated multiple financial APIs (Plaid, Stripe, QuickBooks) and implemented ACH & credit card functionalities
- Optimized Accounts Receivable/Payable reconciliation time by 40% in QuickBooks through automation
- Leveraged AWS services for secure, automated deployment and continuous monitoring.
- Incorporated unit testing with Jest, increasing code coverage, and improving code quality and maintainability.
- Conducted root cause analysis, minimizing recurring issues.
- Implemented Sendgrid, replacing SES, to improve communication, increase productivity and tracking capabilities

Software Development Engineer 1

Audify, Karnataka, India

Sept 2022 - April 2023

- Designed and deployed scalable multiplayer game architecture using Java, SpringBoot, NoSQL, AWS, and distributed systems, improving player connectivity by 50% and reducing latency issues by 35%.
- Collaborated with teams to develop product vision and requirements, reducing project delivery time by 25% through agile processes.
- Enhanced server performance by 40% by load testing and query profiling REST APIs with JMeter.
- Implemented caching with Redis, and AWS, reducing database load by 60% and improving app responsiveness
- Integrated Google Ad verification for rewards, increased Day-7 retention by 15%, and kickstart ad revenue

Software Developer 1

ICICI Securities, Mumbai, India

May 2021 - Aug 2022

- Engineered WhatsApp notifications using RabbitMQ and RESTful APIs, enhancing customer communication.
- Analyzed customer data to identify cross-selling metrics, contributing to business growth initiatives.
- Automated complex trading strategies, reducing execution time by 50% and improving system efficiency.
- Developed REST APIs for an AWS-hosted mobile app using Golang, enabling a seamless mutual fund dashboard.
- Adapted across multiple fintech domains, demonstrating versatility in core operations, research, and development.

INTERNSHIPS AND PROJECTS

- **Machine Learning Intern** — TCS, engineered retention model using NLP for telecom issues. Achieved 7% conversion in marketing via uplift modeling and reduced hiring costs with 94% accurate attrition prediction.
- **Java Intern** — Finshell, Developed Angular 7 front-end for database CRUD operations. Built an automated checker-maker for loan management using BPMN.
- **RAG-based Document Query System**, built RAG chatbot using LLMs and vector stores. Implemented APIs for document processing, chat, and user management. Created scalable architecture for large PDFs. Optimized retrieval and response accuracy. Added authentication, dockerization, and testing.

EXTRACURRICULAR ACTIVITIES

- **Coordinator | Hospitality & Marketing** in IIT Bombay — managed 15+ coordinators, structured deals for Asia's largest tech fest (175K+ footfall), and Organized Cyclothon and Guinness World Record attempt.
- **Cultural Councillor** in IIT Hostel — organize annual festival (1800+ attendees). Received Cultural Color award.