

# Vijay Kulkarni

Senior Software Developer

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Full-Stack Developer with 7 years of experience, specializing in developing scalable, secure, and high-performance web applications using Node.js, Express.js, and React.js. Experienced in leading teams, designing and implementing RESTful and GraphQL APIs, integrating with MySQL, PostgreSQL, and MongoDB, and delivering responsive, user-friendly interfaces. Skilled in CI/CD pipeline implementation, DevOps best practices, and deploying applications on AWS using microservices and serverless architectures. Additionally, contributed to API development using Python and FastAPI and integrated Generative AI services to build intelligent chatbot backends.

## SKILLS

- Javascript
- Nestjs
- Python
- Nextjs
- CI/CD Pipelines
- Kubernetes
- AWS Lambda
- SQS
- MySQL
- Sequelize
- Kafka
- Jest
- Azure Service
- Node.Js
- TypeScript
- Html/Css
- Tailwind CSS
- Github
- Serverless Architecture
- EC2
- API Gateway
- Postgresql
- TypeORM
- Redis
- Mocha
- Genrative Ai
- Express.js
- ES6
- React.js
- Jenkins
- docker
- Microservices
- S3
- RDS
- MongoDB
- GraphQL
- Agile
- AWS Cloud

## WORK EXPERIENCE

### Senior Software Developer - Applied Cloud Computing

Nov 2021 - Present

- Developed backend applications from scratch and maintained RESTful APIs using Node.js and Express.js for web and mobile applications.
- Possess knowledge of the NestJS framework and contributed to API development using Node.js with NestJS, focusing on clean architecture and maintainable code
- Hands-on experience in building Node.js applications using TypeScript with ORM frameworks like Sequelize and TypeORM for efficient, type-safe database interactions
- Developed dynamic and responsive user interfaces using React.js, leveraging Hooks for component logic, Redux and Context API for state management, and Tailwind CSS for modern, responsive styling to deliver seamless user experiences.
- Developed backend services using Python and FastAPI, and configured Generative AI services (Hugging Face, OpenAI, AWS Bedrock) with LangChain/RAG pipelines for context-aware chatbot applications.
- Integrated with relational and non-relational databases such as MySQL, PostgreSQL, and MongoDB.
- Led the architecture and implementation of Node.js-based microservices and serverless applications on AWS, leveraging services like Lambda and API Gateway.
- Optimized application performance, security, and reliability by implementing caching strategies (Redis) and database indexing.
- Built and deployed microservices and serverless applications using AWS Lambda, API Gateway, and S3 Managed cloud infrastructure and containerization with Docker and Kubernetes.

- Followed Agile methodologies and collaborated with cross-functional teams using tools like JIRA.
- Configured and deployed various AWS services to support project requirements and scalability.
- Wrote unit and integration tests using Jest to ensure high code quality and maintainability
- Integrated authentication and authorization mechanisms such as JWT, OAuth, and Passport.js to enhance security.
- Built CI/CD pipelines using GitHub Actions, Jenkins, and Docker to automate testing and deployments.
- Worked as a Team Lead managing four team members, mentoring junior developers, conducting thorough code reviews, and enforcing best coding practices and design patterns across the team.

#### Software Specialist - Delaplex

Jun 2021 - Nov 2021

- Assisted in maintaining and enhancing a legacy application, working on backend development with Node.js and frontend development with React, contributing to feature enhancements and bug fixes under guidance.
- Gained knowledge of GraphQL and contributed to its implementation and configuration within the project.
- Provided support in understanding codebase, troubleshooting issues, and implementing minor improvements in alignment with project requirements.

#### Software Developer - XpressBees

Jul 2018 - Jun 2021

- Developed and maintained full-stack web applications using Node.js, Express.js, and React.js, ensuring seamless user experience and efficient performance.
- Designed and integrated RESTful APIs to enable seamless communication between backend services and front-end interfaces.
- Optimized code performance by leveraging modern ES6+ JavaScript features such as destructuring, promises, and arrow functions.
- Implemented JWT-based authentication and role-based access control (RBAC) to strengthen application security and user access management.
- Built responsive and interactive front-end components using React.js, managing application state with Redux, Context API, and React Query for efficient data fetching and caching.
- Integrated and configured AWS services (S3, SQS) within the Node.js backend to enhance scalability, messaging, and storage; implemented caching mechanisms for performance optimization.

#### Software Trainee - XpressBees

Jan 2018 - Jul 2018

- Contributed to the development of full-stack web applications using Node.js, Express.js, and React.js, ensuring seamless user experiences and high-performance functionality.
- Designed and integrated RESTful APIs with Express.js to enable smooth communication between the front-end and backend.
- Implemented secure JWT-based authentication and authorization, safeguarding user data and controlling access levels across the application.
- Built interactive and dynamic front-end components with React.js.
- Collaborated effectively with teams using Git and GitHub for version control, ensuring streamlined code management and efficient development cycles.

#### Java Developer - Dhruva Creation Technology

Aug 2015 - May 2017

- Proficient in Core Java with a strong understanding of its key concepts and features.
- Developed desktop applications using JavaFX, enhancing user interface and overall user experience.
- Provided application-level support for the DC Album Pro application to clients, ensuring smooth operation, troubleshooting issues, and delivering timely solutions to enhance user satisfaction and system reliability.

## PROJECTS

### ERP System

15 Months

#### Description:

Led the design and implementation of a cloud-native ERP platform that streamlined financial operations, loan lifecycle management, customer servicing, and regulatory compliance. Architected and deployed a robust serverless solution on AWS using Lambda, API Gateway, EventBridge, DynamoDB, and CloudFormation, enabling real-time processing, auto-scaling, and high availability. Developed event-driven backend services with Node.js and Express.js, optimized for scalability and low operational overhead. The initiative enhanced system reliability, reduced infrastructure costs, and accelerated deployment cycles through Infrastructure as Code (IaC) and automation.

Role: Team Lead

Team Size: 4

Technologies: Node.js, Express.js, Sequelize, AWS Lambda, API Gateway, EventBridge, CloudFormation, S3, PL/SQL

### Axis Open Bharat Banking Platform

24 Months

Contributed from scratch to the development of Axis Bank's Open Bharat Banking platform, a microservices-based architecture designed to enable seamless integration of digital banking services—such as account opening, payments, fund transfers, and API-based access—for third-party fintechs, enterprises, and end-users. Focused on building secure, scalable, and high-performance RESTful APIs to power real-time banking transactions and support financial inclusion. Developed domain-specific microservices including co-lending, cash deposit, and fixed deposit (FD) product allocation, accelerating open banking adoption across India's digital ecosystem.

Role : Backend Developer (Node.js)

Technologies Used : Node.js, Express.js, MySQL, Sequelize, SQS, S3, Bitbucket, Docker, Kubernetes

### Nippon Mutual Fund

12 Months

Description:

Designed and implemented a high-performance, responsive user interface for Nippon Mutual Fund's digital investment platform using React.js and TypeScript, delivering a seamless and intuitive user experience for both retail and institutional investors across devices. Collaborated closely with UX/UI designers to translate wireframes into modular, reusable components using Tailwind CSS, ensuring cross-browser compatibility and accessibility.

Role: UI Developer

Technologies: React.js, Redux, API Context, TypeScript, Tailwind CSS.

### Logistics Management System

36 Months

Description:

Developed and continuously enhanced a full-stack logistics management system to automate key supply chain functions such as order processing, shipment tracking, warehouse operations, and inventory control. Contributed to both frontend development—delivering responsive, real-time dashboards—and backend engineering, building scalable APIs and workflows for order handling, route optimization, and inventory synchronization. Actively supported and extended the platform by adding new features and improvements based on evolving business needs and market strategies, ensuring it remains competitive and aligned with operational goals. This led to improved delivery turnaround, warehouse coordination, and overall efficiency.

Role: Software Developer (Node.js, React, AWS)

Technologies: Node.js, Express.js, MongoDB, React.js, AWS Services, ES6

### DC ALBUM PRO

22 Months

Description:

Designed and developed a desktop-based album design application using JavaFX for an interactive UI and Java Servlets for backend processing. The application enabled users to efficiently create custom photo layouts, apply design templates, and manage projects with saving/loading capabilities. Implemented file I/O operations, image rendering, and session management to ensure a smooth and responsive design experience across user workflows.

Role: Java Developer

Technologies: Core Java, JavaFX, Java Servlets

## EDUCATION

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### 2015 MCA | Computers

MIT college

Aurangbad(maharashtra)

### 2012 BCA | Computers

Devgiri institute of Technology in

Aurangbad

### 2009 12th

Maharashtra, Marathi

Marks - 60-64.9%

2006 10th  
Maharashtra, Marathi  
Marks - 45-49.9%

ADDITIONAL INFORMATION

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Languages: Marathi, English, Hindi