

PRUDHVI CHARAN P

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PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 4 years of experience architecting, developing, and deploying high-scale, cloud-native applications across React, Angular, .NET Core, Java/Spring Boot, and Node.js ecosystems. Deep expertise in building microservices architectures, AI-powered solutions, and enterprise-grade systems serving millions of users. Proven track record of driving 35-50% performance improvements, reducing infrastructure costs by 30-40%, and leading cross-functional teams to deliver mission-critical applications. Strong foundation in AWS cloud infrastructure, containerization (Docker/Kubernetes), CI/CD automation, and modern frontend frameworks. Passionate about system design, scalability, and mentoring engineering teams.

TECHNICAL SKILLS

Languages & Core Technologies: JavaScript (ES6+), TypeScript, Java, Python, C#, SQL, HTML5, CSS3, Sass/SCSS, Node.js

Frontend Frameworks & Libraries: React (Hooks, Context API, Redux), Angular (12-18, RxJS, NgRx, Standalone Components), Next.js, Vue.js, Angular Material, Tailwind CSS, Bootstrap, Microfrontends (Module Federation), Webpack, Vite

Backend Frameworks & APIs: Spring Boot (Spring MVC, Spring Security, Spring Data JPA), .NET Core/ASP.NET Core (Web API, Entity Framework, Dependency Injection), Node.js, Express.js, RESTful APIs, GraphQL (Apollo Server/Client, Schema Design), Microservices Architecture, gRPC, Event-Driven Architecture

Databases & Data Management: PostgreSQL, MySQL, MongoDB, Redis (Caching, Session Management), SQL Optimization, Database Design, NoSQL, ORM (Hibernate, Entity Framework, Sequelize)

Cloud Platforms & DevOps: AWS (EC2, S3, Lambda, RDS, CloudWatch, API Gateway, Cognito, CloudFormation, ECS), Docker, Kubernetes (K8s, Helm, Service Mesh), Jenkins, GitLab CI/CD, GitHub Actions, Terraform (Infrastructure as Code), Ansible, Serverless Architecture

Security & Authentication: OAuth 2.0, JWT, SAML, AWS Cognito, Spring Security, OWASP Security Best Practices, Role-Based Access Control (RBAC), API Security

Testing & Quality Assurance: Jest, Jasmine, Karma, Cypress, JUnit, Mockito, TestNG, Integration Testing, End-to-End Testing, Test-Driven Development (TDD), Behavior-Driven Development (BDD), SonarQube, Code Quality Analysis

Monitoring, Logging & Observability: Grafana, Prometheus, ELK Stack (Elasticsearch, Logstash, Kibana), Log4J, SLF4J, Application Performance Monitoring (APM), Distributed Tracing

Development Tools & Methodologies: Git, GitHub, GitLab, Bitbucket, Jira, Confluence, Postman, VS Code, IntelliJ IDEA, Agile (Scrum, Kanban), SDLC, Design Patterns (Singleton, Factory, Observer, Repository, CQRS), System Design, Code Reviews, Pair Programming

AI & Emerging Technologies: OpenAI API Integration, LLM-Powered Features, NLP, AI-Driven Automation, Machine Learning Integration, Intelligent Document Processing, Chatbot Development

PROFESSIONAL EXPERIENCE

SENIOR FULL-STACK AI ENGINEER | Akdene | Remote

March 2025 – Present

- Architected and delivered 6 enterprise-grade AI-powered applications using React, TypeScript, .NET Core, and Node.js microservices, serving 50,000+ users across healthcare and recruitment domains with 99.9% uptime
- Designed and implemented scalable microservices architecture using Spring Boot, .NET Core Web API, and Node.js/Express, decomposing monolithic applications into 15+ independently deployable services, reducing deployment time by 60% and enabling parallel team development
- Built high-performance RESTful and GraphQL APIs with advanced pagination, filtering, caching (Redis), and rate limiting, handling 10M+ monthly requests with sub-100ms P95 latency
- Engineered AI-powered Resume Parser and intelligent chatbot workflows using OpenAI GPT-4 API and LangChain, automating candidate screening and reducing manual review effort by 45%, accelerating hiring cycles by 3 weeks
- Developed modern React applications with TypeScript, implementing advanced state management (Redux Toolkit), code splitting, lazy loading, and performance optimizations, achieving 95+ Lighthouse scores and 40% faster page load times
- Designed and implemented comprehensive authentication and authorization system using AWS Cognito, OAuth 2.0, JWT, and RBAC, securing 8 applications and reducing security incidents by 35%
- Optimized PostgreSQL and MongoDB database schemas, implemented query optimization strategies, indexing, and connection pooling, improving query performance by 50% and reducing database costs by 25%

- Established robust CI/CD pipelines using Jenkins, Docker, and Kubernetes, implementing automated testing, blue-green deployments, and rollback strategies, reducing deployment failures by 70% and achieving 50+ weekly production releases
- Led migration of legacy Angular applications to React with TypeScript, introducing modern development practices, component libraries, and design systems, improving developer productivity by 35% and reducing bug count by 40%
- Implemented comprehensive monitoring and observability using Grafana, Prometheus, and ELK Stack, creating custom dashboards and alerts, reducing mean time to detection (MTTD) by 60% and mean time to resolution (MTTR) by 45%
- Mentored team of 5 junior and mid-level engineers on system design, code quality, testing best practices, and AI-assisted development tools (GitHub Copilot, ChatGPT), improving team velocity by 30% and reducing code review cycles
- Collaborated with product managers, UX designers, and DevOps teams to translate complex business requirements into scalable technical solutions, delivering 12+ major features on schedule with high customer satisfaction

FULL-STACK SOFTWARE ENGINEER | Vitrana | Bangalore, India

June 2021 – December 2022

- Led end-to-end development of HiLIT healthcare analytics platform using Angular, Spring Boot, and PostgreSQL, enabling analysis of 5M+ adverse event records and serving 2,000+ healthcare professionals globally
- Architected and implemented RESTful microservices using Spring Boot and .NET Core, designing 20+ API endpoints with pagination, sorting, complex filtering, and sub-100ms response times for large healthcare datasets
- Built sophisticated Angular single-page applications with RxJS for reactive programming, NgRx for state management, and Angular Material for UI components, reducing data analysis time by 45% and improving user satisfaction scores by 40%
- Pioneered adoption of microfrontend architecture across 7 enterprise applications using Webpack Module Federation, enabling independent deployments, reducing build times by 35%, and improving system modularity by 50%
- Designed and developed .NET Core Web APIs with Entity Framework Core for enterprise clients, implementing CQRS pattern, async/await programming, and repository pattern, handling 500K+ daily transactions with 99.95% uptime
- Implemented comprehensive testing strategy achieving 95% code coverage using Jest, Jasmine, Karma for frontend and JUnit, Mockito, TestNG for backend, reducing production defects by 40% and regression issues by 60%
- Engineered robust CI/CD pipelines using Jenkins, Docker, and GitLab CI, implementing automated unit testing, integration testing, security scanning, and blue-green deployments, achieving 95% deployment success rate and zero-downtime releases
- Deployed and managed cloud infrastructure on AWS (EC2, S3, RDS, Lambda, CloudWatch), implementing auto-scaling, load balancing, and disaster recovery, optimizing costs by 35% while improving availability to 99.9%
- Designed and implemented centralized logging and monitoring solution using ELK Stack, Grafana, and Log4J, aggregating logs from 15+ microservices, reducing debugging time by 50% and improving incident response by 40%
- Optimized application performance through database query tuning, Redis caching implementation, lazy loading, code splitting, and CDN integration, achieving 45% reduction in page load times and 30% decrease in server response times
- Led technical interviews and code reviews for 20+ candidates, established coding standards and best practices documentation, reducing code quality issues by 50% and onboarding time for new engineers by 40%
- Collaborated in Agile/Scrum ceremonies with product owners, QA engineers, and DevOps teams, delivering 40+ features across 12 sprint cycles with 95% on-time delivery rate

FRONTEND SOFTWARE ENGINEER | Vitrana | Bangalore, India

December 2019 – May 2021

- Developed large-scale Angular enterprise dashboards with 60+ screens, implementing complex routing, guards, lazy loading, and state management using RxJS and services, handling navigation for 100K+ medical terms
- Redesigned MedDRA Dictionary management system serving pharmaceutical and regulatory users globally, improving search performance by 60%, reducing data load time by 50%, and enhancing user experience with modern Angular Material components
- Implemented microfrontend architecture across 8 projects using Webpack Module Federation and Angular Elements, enabling parallel team development, reducing deployment dependencies, and increasing code reuse by 40%
- Built comprehensive Angular component libraries with 30+ reusable UI components using Angular Material and custom SCSS, establishing design system, reducing development time by 35%, and ensuring consistent UX across applications
- Modernized legacy JavaScript codebases by migrating to TypeScript and ES6+ features (async/await, Promises, Arrow Functions, Modules, Classes), improving code maintainability by 50% and reducing runtime errors by 40%
- Contributed to containerization initiative by migrating Spring Boot monolithic applications to Docker-based microservices, creating Dockerfiles, docker-compose configurations, and CI/CD integration, reducing deployment time from hours to minutes
- Enhanced code quality and reduced defects by 40% through implementing rigorous code review processes, static code analysis using SonarQube and SonarLint, and enforcing coding standards across team of 12 engineers

- Optimized GitLab CI/CD pipelines by adding automated unit testing, integration testing, code quality gates, and security scanning, increasing test coverage from 60% to 90% and reducing production bugs by 35%
- Collaborated with UX designers and backend engineers to implement pixel-perfect, responsive designs, ensuring cross-browser compatibility (Chrome, Firefox, Safari, Edge) and mobile responsiveness for all applications

TECHNICAL PROJECTS

CAREER AXIS – AI-Powered Job Application Tracker

Technologies: React, TypeScript, Tailwind CSS, Node.js, Express, Gmail API, OAuth 2.0, OpenAI API, MongoDB, Docker

- Architected and developed full-stack job tracking platform integrating Gmail API and NLP classification, reducing manual tracking effort by 75% for 500+ active users
- Implemented ML-based email classification system using OpenAI API achieving 90% accuracy across 8 job application categories (Applied, Rejected, Interview, Offer, Follow-up, OA, Networking, Other)
- Built responsive React dashboards with TypeScript, React Hooks, and Tailwind CSS, implementing real-time data visualization, advanced filtering, and export capabilities, achieving 95+ Lighthouse performance score
- Designed RESTful API backend using Node.js/Express with JWT authentication, MongoDB for data persistence, and Redis caching, supporting 1,000+ concurrent users with sub-50ms API response times
- Deployed application using Docker containers on AWS EC2 with automated CI/CD via GitHub Actions, implementing health checks, logging (CloudWatch), and monitoring (Grafana)

LAUNCHMASTERS – College Application Management Platform

Technologies: Angular, TypeScript, Node.js, Express, MongoDB, Redis, JWT, RESTful APIs, US College Scorecard API, Docker

- Developed comprehensive full-stack platform serving 1,200+ students with college research, application tracking, deadline management, and analytics features
- Integrated US College Scorecard API to fetch and process data for 7,000+ institutions, implementing advanced filtering (state, major, admission rate, cost), sorting, pagination, and caching (Redis) for optimal performance
- Built Angular SPA with TypeScript, RxJS for reactive programming, and Angular Material for UI, implementing complex state management, routing with guards, and lazy loading for performance optimization
- Engineered secure Node.js/Express backend with JWT-based authentication, MongoDB for data persistence, and RESTful API design, supporting 500+ concurrent users with 99.5% uptime
- Implemented comprehensive testing using Jasmine, Karma, and Jest achieving 85% code coverage, and deployed using Docker with CI/CD automation via GitLab pipelines

EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE | University of Missouri–Kansas City | Kansas City, MO

January 2023 – May 2024 | GPA: 3.8/4.0

Relevant Coursework: Advanced Algorithms, Distributed Systems, Cloud Computing, Machine Learning, Database Systems

BACHELOR OF TECHNOLOGY IN SOFTWARE ENGINEERING | Vellore Institute of Technology | Tamil Nadu, India

June 2016 – June 2021 | GPA: 8.67/10

Relevant Coursework: Data Structures, Object-Oriented Programming, Web Development, Software Architecture, Database Management