

# Adhi Narayanan Ramesh

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## SUMMARY

Software developer graduating May 2026 with experience in full-stack systems, backend engineering, microservices, and cloud deployment. Skilled in JavaScript, Python, React, Node.js, and AWS, with strong problem solving skills and a history of shipping reliable, high-performance software.

## EDUCATION

**Master of Science in Information Systems**, California State University, Long Beach Aug 2024 – May 2026 | GPA : 3.7  
Coursework: Machine Learning | Database Systems | Cloud Computing (AWS) | Software Engineering | Web Development

**Bachelor of Technology in Computer Science**, Dayananda Sagar University Aug 2019 – May 2023  
Coursework: Data Structures and Algorithms | Object Oriented Programming | Operating Systems | Database Management Systems

## SKILLS

**Languages:** JavaScript, TypeScript, Python, Java, C++, Go, HTML, CSS, SQL, Kotlin

**Frameworks & Libraries:** React.js, Next.js, Node.js, Express.js, FastAPI, Flask, Django, Spring Boot, GraphQL, D3.js, React Native

**Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Firebase, Elasticsearch, FAISS, DuckDB

**Cloud & DevOps:** AWS (EC2, S3, Lambda, ECS), Azure, GCP, Docker, Kubernetes, CI/CD, Jenkins, GitHub Actions, Linux, Prometheus, Grafana

**Tools & Methodologies:** Git, Jira, Postman, Jest, Mocha, PyTest, REST APIs, Microservices, WebSockets, Agile/Scrum, OOP, Design Patterns, SDLC

## PROFESSIONAL EXPERIENCE

**Software Developer**, Helton Law May 2025 – Present | Costa Mesa, CA

- Developed React.js/Node.js document upload interface processing 500+ weekly documents, reducing errors by 40%.
- Built 8 Express.js/PostgreSQL REST API endpoints improving data retrieval speed by 25%.
- Automated document processing workflows with Python, reducing manual entry from 30 to 5 minutes per case (35% accuracy gain).
- Collaborated with legal team to gather requirements and deliver case tracking tools achieving 90%+ user satisfaction.

**Software Developer**, CSULB Dec 2024 – May 2025 | Long Beach, CA

- Managed 10,000+ student records with Python data validation pipelines, reducing processing errors by 40 percent.
- Built 5+ Salesforce workflow automations and backend scripts optimizing the enrollment pipeline and improving team efficiency by 30 percent.
- Resolved 30+ critical bugs in a ReactJS enrollment dashboard through debugging and tuning, improving page load speed by 40 percent.
- Built a ReactJS admin dashboard with Graylog, Grafana, and Prometheus alerts to monitor document status and detect issues in real time.

**Software Development Engineer**, Ernst & Young Aug 2023 – Aug 2024

- Architected InfoSec dashboard serving 200+ analysts, processing 10M+ daily events and reducing threat analysis time by 67%.
- Integrated 5+ security APIs (Tenable, Splunk, QRadar, OWASP, Grype) into microservices architecture, enhancing threat detection by 35%.
- Implemented Redis caching strategies for frequently accessed threat data, reducing database load by 45% during peak traffic.
- Engineered automated testing suites using Jest and Mocha achieving 90% code coverage, preventing critical security regressions in production.

**Frontend Developer**, Advertyzement Jan 2023 – Apr 2023

- Contributed to React.js/Next.js/GraphQL redesign, increasing organic traffic by 30% and improving page load speeds by 25%.
- Engineered WebSocket-based real-time inventory system handling 500+ concurrent sessions, reducing cart abandonment by 15%.
- Refactored responsive UI components with CSS/JavaScript, ensuring pixel-perfect compatibility across 5+ devices and browsers.
- Collaborated with cross-functional teams to integrate RESTful APIs, ensuring seamless data flow between frontend and backend systems.

## PROJECTS

**Axon: AI-Powered Healthcare Assistant**, Tech Stack: React Native, Node.js, Express, MongoDB, Firebase, AWS

- Developed comprehensive healthcare platform for dementia patient care, improving care accessibility by 30% through AI-driven cognitive assessment tools and real-time caregiver communication features
- Conducted behavioral research and data analysis on 100+ patient interactions, implementing cognitive engagement algorithms that improved memory recall metrics by 25%

**FinTrack: Personal Finance iOS App**, Tech Stack: Swift, UIKit, Core Data, REST APIs, Xcode

- Developed native iOS application using Swift and UIKit with MVC architecture, implementing secure user authentication and biometric login features for personal finance management across 1,000+ test users
- Built Core Data persistence layer with relational database design for transaction storage, category management, and budget tracking, ensuring data integrity and optimal query performance for financial records

**Intelligent Document Q&A System with RAG**, Tech Stack: Python, LangChain, FAISS, OpenAI API, Docker, Kubernetes

- Built production-ready RAG pipeline enabling semantic search across 50,000+ PDF documents with 92% accuracy using vector embeddings and advanced NLP techniques
- Fine-tuned LLaMA-2 model on a custom dataset of 10k+ interactions using LoRA optimization techniques, achieving 94% response accuracy and reducing inference time by 40% for edge deployment.

## LEADERSHIP

**Team Lead @ Alteryx & CSUF Datathon, Winning team**

- Analyzed transportation data using Alteryx and Tableau to identify optimization opportunities for Orange County Transportation Authority, developing recommendations for improved resource allocation and operational efficiency

**Founder, The Odin Club @ Dayananda Sagar University**

- Founded and led a web development-focused coding club, mentoring 20 students—15 of whom secured internships