

# Raghu Raj Sodani

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## SUMMARY

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Forward-thinking full-stack engineer with 4+ years building production applications at scale (100K+ users). Strong foundation in ML/AI with hands-on TensorFlow/Keras experience, eager to apply expertise to cutting-edge GenAI solutions. Proven track record of rapid prototyping, stakeholder collaboration, and translating complex technical concepts for diverse audiences. Thrives in fast-paced environments with startup DNA—comfortable wearing multiple hats and driving transformations through experimentation.

## TECHNICAL SKILLS

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**Full-Stack Development:** React.js, Next.js, TypeScript, JavaScript, Node.js, Python, Java Spring Boot, Django, REST APIs, GraphQL

**AI/ML Foundations:** TensorFlow, Keras, PyTorch basics, NumPy, Pandas, Scikit-learn, Model training & optimization

**Cloud & Infrastructure:** AWS (Lambda, S3, EC2, DynamoDB, SageMaker basics), Docker, CI/CD (GitHub Actions, GitLab), IaC concepts

**Databases & Data:** PostgreSQL, MongoDB, DynamoDB, GraphQL, Data pipelines, ETL, Semantic data modeling

**Integration & APIs:** OAuth, JWT, API security, Microservices, Event-driven architecture, Third-party integrations

**DevOps & Tools:** Git, Docker, AWS CDK, Terraform basics, Monitoring (CloudWatch), Agile, Technical documentation

## EXPERIENCE

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### Software Development Engineer

*Amazon*

May 2024 – Present

*Hyderabad, India*

- Rapidly prototyped and deployed full-stack customer service platform (React, TypeScript, GraphQL) serving 100K+ daily users, reducing customer contacts by 12.7% through enhanced self-service capabilities—demonstrating fast iteration and customer impact
- Engineered end-to-end data pipeline integrating DynamoDB and Data Lake with transformation layers, validation logic, and automated quality checks ensuring data accuracy for downstream analytics
- Built intelligent voice interaction system processing 10K+ daily queries with automated response mechanisms using algorithmic approaches and scripting, showcasing AI-first experimentation mindset
- Led cross-functional JDK17 migration across 28 packages coordinating with multiple stakeholders, translating technical requirements into actionable roadmaps while maintaining deployment velocity
- Partnered with product teams through technical workshops to define requirements, present solutions, and gather feedback—balancing customer needs with technical feasibility

### Software Development Engineer

*MAQ Software*

Nov 2023 – May 2024

*Hyderabad, India*

- Spearheaded full-stack migration from legacy AngularJS to modern React + TypeScript architecture, delivering in sprints with iterative feedback loops and achieving 30% performance improvement through optimization
- Designed reusable component library and patterns deployable across projects with standardized APIs, reducing development time by creating abstraction layers for common functionality
- Collaborated directly with enterprise stakeholders through technical workshops to document requirements, troubleshoot issues, and deliver solutions ensuring compliance and quality standards

### Software Development Engineer Intern

*Amazon*

Jan 2023 – Jun 2023

*Hyderabad, India*

- Developed Spring-based microservices and GraphQL APIs with performance optimization reducing latency—experience translates to building scalable GenAI application backends
- Created responsive React UI components with modern hooks and state management for seamless user experiences

## AI/ML PROJECTS & RESEARCH

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### ISRO Maritime Navigation System | *Python, Django, TensorFlow, React.js*

2022

- Built end-to-end AI-powered navigation system collaborating with ISRO researchers—experience translating complex technical concepts for domain experts and iterating on feedback
- Implemented geospatial algorithms with TensorFlow for pattern recognition, data preprocessing pipelines, and model optimization delivering actionable insights through interactive dashboards
- Designed REST APIs integrating ML models with frontend, showcasing ability to deploy AI solutions in production-like environments

### Optimization Research (Published) | *Python, Mathematical Modeling*

2022

- Authored research paper on optimization algorithms published in IDAMS 2022 (Springer)—demonstrates ability to document technical approaches, create comprehensive guides, and share learnings with broader communities

## EDUCATION

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### Indian Institute of Information Technology, Vadodara

Vadodara, India

*Bachelor of Technology in Computer Science & Engineering, GPA: 8.1/10*

*Aug 2019 – May 2023*

## ACHIEVEMENTS & STRENGTHS

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- **CodeChef 5-Star** (Rating 2040, Top 0.5%) - Exceptional problem-solving and algorithmic thinking critical for AI agent development
- **INMO 2019 Scholar** - Mathematical olympiad background strengthens understanding of model optimization and prompt engineering
- **Fast Learner & Startup DNA** - Thrives in ambiguous, fast-paced environments; comfortable tackling challenges outside core expertise
- **Customer-Centric Mindset** - Proven ability to build trust with enterprise stakeholders, present demos, and translate technical concepts