

PARTHASARATHI RV

Senior Software Engineer | Applied AI & Full-Stack Engineering | Customer-Facing Delivery

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PROFESSIONAL SUMMARY

Software engineer with 7+ years building, deploying, and operating production systems across ed-tech and B2B SaaS. Specialize in applied Generative AI: shipped LLM-powered products (a RAG chatbot and automated content-generation pipelines) that replaced manual, multi-team workflows with one-minute automation and reached 80% adoption. Experienced in integrating with third-party platforms (Slack, Microsoft Teams, Stripe, AWS services), turning ambiguous business problems into clear technical designs, and owning delivery from problem definition through launch and continuous iteration. Comfortable working directly with customers: handled on-call rotations, joining live calls to diagnose and fix production issues in real time. Currently lead a team of five engineers at Bhanzu.

CORE SKILLS

AI & Automation: LLM application development, RAG pipelines, OpenAI API, LangChain, vector search (Pinecone), prompt engineering, fine-tuning, conversational AI, workflow automation

Languages: Python, TypeScript, JavaScript, HTML/CSS/SCSS

Backend & Integrations: Node.js, Express.js, Flask, FastAPI, REST API design, third-party integrations (Stripe, Slack, Microsoft Teams), microservices, system design, event-driven architecture (SQS)

Cloud & Production Ops: AWS (EC2, EKS, Lambda, API Gateway, DynamoDB, RDS/Aurora, S3, SQS, ECR, Secrets Manager), Docker, Kubernetes, ArgoCD, CI/CD, Grafana, PagerDuty, performance profiling

Frontend: React, Next.js, Zustand, Storybook, Webpack

Data & Testing: PostgreSQL, MongoDB, MySQL, DynamoDB, Playwright, Lighthouse

Delivery & Collaboration: Live customer troubleshooting, on-call incident response, stakeholder requirements gathering, technical documentation, Agile/Scrum, code and security review, mentoring, Git, JIRA, Confluence, Figma

PROFESSIONAL EXPERIENCE

Software Development Engineer IV | Bhanzu

Aug 2025 - Present

Bengaluru, India

- Lead a team of five engineers (4 SDE-I, 1 SDE-II), owning platform architecture, scalability, security, and code quality across the company's core production products.
- Set engineering standards, run code and security reviews, and mentor interns and junior engineers on system design, best practices, and review discipline.

Software Development Engineer III | Bhanzu

May 2022 - Aug 2025

Bengaluru, India

- Designed and shipped DoubtGPT, a curriculum-grounded RAG chatbot (OpenAI, LangChain) that resolves student doubts in real time; iterated on fine-tuning and response quality to improve accuracy.
- Built AI Writer, an OpenAI-powered tool that generates session summaries, video scripts, and question banks; replaced curriculum-design work that previously required ~40 core employees with a one-minute automated run, reached 80% adoption across curriculum teams, and won the company hackathon. Extended it to auto-build full curricula by grade and topic.
- Built student reporting features on top of PostgreSQL, designing queries and data models to generate and surface student performance reports; explored Pinecone for vector search as part of RAG retrieval work on DoubtGPT.
- Served on one-week on-call rotations as the direct point of contact for customer-reported production issues: joined live calls with customers, diagnosed root causes, and shipped bug fixes on the spot, including after-hours incidents, to resolve problems quickly and protect customer retention.
- Built Ed-Reels, an OpenAI and Manim pipeline that auto-generates short-form math explainer videos for students.
- Built and owned the Admin Panel, Student Dashboard, and CLM Dashboard from scratch (React, TypeScript, Next.js, Python/Flask/FastAPI) on a microservices architecture (AWS Lambda, S3, API Gateway, DynamoDB, ECR, SQS, Secrets Manager; Docker, Kubernetes, ArgoCD).
- Profiled the stack in production to cut page-load and API response times and speed up release velocity across the platform suite; ran delivery on an Agile/Scrum cadence.

Software Development Engineer II | Springworks Inc. (EngageWith)

Apr 2021 - May 2022

Santa Monica, CA (Remote)

- Served as Scrum Master and full-stack lead for EngageWith, a Slack and Microsoft Teams employee-recognition and rewards platform (MERN stack, AWS, Gatsby).
- Drove SEO optimization and front-end performance best practices across the product.

Software Development Engineer I | Springworks Inc. (EngageWith)

Sep 2019 - Mar 2021

Santa Monica, CA (Remote)

- Full-stack developer on EngageWith (MERN stack); integrated the Stripe Customer Portal for subscription payments and xoxoday for reward redemption.

Research & Development Intern | Indian Institute of Technology, Madras

Feb 2019 - Aug 2019

Chennai, India

- Implemented GLCM and RANSAC-based computer vision algorithms to unwrap and stitch robot-captured video into 3D reconstructions of inspected pipelines; the core technology was later commercialized as Solinas Integrity.

EDUCATION

Bachelor of Engineering, Computer Science and Engineering

2015 - 2019

Anna University (AIT) | CGPA 7.5 | Best Outgoing Student | President, Rotaract Club

CERTIFICATIONS & AWARDS

- Hackathon Winner, Rethink Passion & Bhanzu (AI Writer); Best Project Award; Best Presenter, Student League at IIT Madras
- Microsoft AI Tour (Global AI Community); Machine Learning Crash Course (Google); AWSome Day Online Conference (AWS); EMC Academic Associate; Intelligent Systems (Intel)

PUBLICATION

"Hypaponics - Monitoring and Controlling using Internet of Things and Machine Learning"