

SURESH BALA

AI Developer | Full-Stack Healthcare Application Engineer

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PROFESSIONAL SUMMARY

Results-driven AI Developer and Full-Stack Engineer with 10+ years of experience, specialising in end-to-end development and deployment of intelligent healthcare applications for Web and Mobile platforms. Proficient in integrating large language models, building AI-assisted workflows, and delivering multi-cloud solutions on AWS and Azure. Expert user of modern AI-focused IDEs including Cursor and Antigravity. Adept at bridging DevOps, networking, and application engineering to deliver robust, scalable healthcare IT systems.

CORE COMPETENCIES

AI & ML: LLM Integration, AI-Assisted Development, Prompt Engineering, Generative AI, Healthcare AI Solutions

Web Development: React.js, Node.js, REST APIs, GraphQL, Microservices Architecture, Progressive Web Apps

Mobile Development: React Native, Cross-Platform iOS & Android, FHIR-Compliant Mobile Healthcare Modules

IDEs & Dev Tools: Antigravity, VS Code, Postman, Git/GitHub, Docker

Cloud & DevOps: AWS (EC2, S3, Lambda, Certificate Manager), Azure (VMs, Blob Storage, Azure DevOps, AKS), CI/CD Pipelines, Infrastructure as Code

Healthcare IT: EHR/EMR Integration, HL7/FHIR Standards, Hospital Information Systems, Patient Data Security

Networking: TCP/IP, Cisco Routers & Switches, Active Directory, Exchange Server, Microsoft 365

WORK EXPERIENCE

Nalam Healthcare IT Solutions Pvt. Ltd., Chennai | Lead Networking Engineer, DevOps & AI Developer | 2022 - Present

Took on expanded responsibilities spanning AI application development, DevOps, and lead networking for 500+ hospital clients across Web and Mobile platforms.

- Designed and developed multiple AI-powered healthcare web and mobile applications using React.js and React Native, with LLM integrations for clinical decision support and patient engagement.
- Utilised Cursor AI IDE and Antigravity to accelerate code generation, intelligent refactoring, and AI-assisted debugging throughout the full application lifecycle.
- Delivered end-to-end application development and deployment - from requirements gathering and UI/UX design through coding, testing, CI/CD pipeline setup, and production release on AWS and Azure.
- Integrated FHIR/HL7 APIs into mobile healthcare apps, enabling seamless interoperability between hospital information systems and patient-facing applications.
- Built AI-driven diagnostic modules and appointment scheduling features; reduced patient intake processing time by 40%.
- Architected multi-cloud solutions on AWS (EC2, S3, Lambda, Certificate Manager) and Azure (Azure VMs, Blob Storage, Azure DevOps) ensuring 99.9% uptime for mission-critical healthcare workloads.
- Continued to lead network infrastructure management and enterprise-level Active Directory, O365, Exchange Server, and Microsoft 365 services for 500+ hospital endpoint environments.
- Implemented advanced DevOps practices including automated deployment pipelines on Azure DevOps, infrastructure-as-code, and environment-specific configuration management.

Nalam Healthcare IT Solutions Pvt. Ltd., Chennai | Lead Networking Engineer & DevOps Engineer | Mar 2015 - 2022

(Formerly Technobees Solutions Pvt. Ltd. until 2017)
Provided first-level support and managed networking infrastructure for 500+ hospital clients, overseeing server, cloud, and enterprise communication systems.

- Led network infrastructure design, configuration, and troubleshooting across hospital campus environments including Cisco routers, switches, VLANs, and IP addressing.
- Managed enterprise-level Active Directory, O365, Exchange Server (2003-2016), and Microsoft 365 services for 500+ hospital endpoint environments.
- Administered AWS cloud environments (EC2, S3, Certificate Manager) and began integrating Azure services for hybrid cloud networking and DevOps pipelines.
- Provided L1/L2 enterprise support and ticket management; improved resolution SLA compliance by 35%.

vServe Systems, Chennai | Technical Engineer | Jun 2013 - Mar 2015

Responsible for installation, administration, and networking across diverse enterprise environments.

- Designed and commissioned complete access control, biometric, and time-attendance systems for enterprise clients.
- Installed and supported CCTV surveillance, PA, and fire-fighting systems.
- Performed hardware assembly, OS installation, driver configuration, and printer/network sharing.
- Delivered technical support for networking infrastructure, workstation maintenance, and system troubleshooting.

KEY AI & HEALTHCARE PROJECTS

- AI-Powered Patient Management Platform (Web & Mobile): Built a FHIR-compliant platform integrating GPT-based clinical note summarisation; reduced documentation time by 50% across 20+ hospitals.
- Healthcare Chatbot Mobile App: Developed a conversational AI assistant for symptom triage and appointment booking using LLM APIs, deployed on iOS and Android via React Native.
- Predictive Analytics Dashboard (Web): Created a React.js dashboard with ML-driven bed occupancy forecasting integrated with hospital ERP, enabling proactive resource planning.
- End-to-End DevOps Pipeline for Healthcare SaaS: Architected CI/CD pipelines on AWS and Azure DevOps with automated testing, blue-green deployments, and HIPAA-aligned security controls.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), Python, TypeScript, SQL
Frontend: React.js, HTML5, CSS3, Tailwind CSS
Mobile: React Native (iOS & Android)
Backend: Node.js, Express.js, REST APIs, GraphQL
AI / LLM Tools: OpenAI API, LangChain, Hugging Face, Prompt Engineering
Cloud: AWS EC2, S3, Lambda, RDS, Certificate Manager | Azure VMs, Blob Storage, Azure DevOps, AKS
Healthcare Standards: HL7, FHIR, DICOM Basics
Networking: TCP/IP, Cisco Routers & Switches, VLAN, DNS, DHCP
Microsoft Stack: Active Directory, Exchange Server 2003-2016, O365, Skype for Business/Lync

ACADEMIC QUALIFICATIONS

Course	Specialization	Board/University	Year
SSLC	Mathematics, Science	State Board	2007
HSC	Computer science.	State Board	2009
B.E	EEE	Anna University	2013

CERTIFICATIONS & TRAINING

- Microsoft Desktop Support Associate (MDSA) - Certified
- AWS Cloud Practitioner
- AI for Healthcare - Coursera / deeplearning.ai

PERSONAL PROFILE

Full Name: Suresh Bala

Date of Birth: 2nd January 1991

Gender: Male

Marital Status: Single

Languages Known: Tamil, English

Nationality: Indian

Location: Chennai, Tamil Nadu

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