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Innovative engineering leader with a proven track record in driving product success across startups and large corporations. Specialized in education technology, with expertise in generative AI, cloud solutions, and agile methodologies. Demonstrated ability to deliver high-impact projects that exceed business goals while fostering a collaborative environment.

Key Achievements

- **Gen AI Innovation**: Secured a top 5 position in Google's Gen AI Exchange Hackathon 2024, developing a Retrieval-Augmented Generation (RAG) solution on AWS EC2, showcasing expertise in cutting-edge AI technologies.
- **Revenue Impact**: Contributed to $45M in revenue by leading the development and optimization of SaaS products supporting 3.5M students and 6,000 staff users.

Senior Engineering Manager | PowerSchool | Bangalore | 2021 - 2024

Technical Leadership and Innovation

- Led development of PowerBuddy, an AI-driven chatbot for college and career planning:
    - Engineered Naviance Coach using Generative AI and RAG for personalized guidance.
    - Deployed on AWS serverless architecture for scalability and reliability.

Team Management and Agile Leadership

- Led two agile teams of 5 engineers each, focusing on Course Planner, Surveys, Headed2, and PowerBuddy.
- Implemented Scrum Master responsibilities, empowering teams to self-coordinate sprints.

Performance Optimization and Scale

- Optimized Course Planner for peak seasons using K6 test suite and monitoring tools (New Relic, DataDog, Splunk).
- Scaled SaaS products on AWS Cloud using TypeScript, React, Node.js, and Generative AI.

Cross-functional Collaboration and Customer Focus

- Orchestrated collaboration with architects, product owners, QA, and CloudOps across India and US.

- Proactively addressed high-priority customer issues, integrating solutions into product roadmaps.

Technical Expertise

- Proficient in AWS services, microservices architecture, and distributed systems.
- Experienced in CI/CD implementation and data-driven decision making for product optimization.

Few **Past Roles**:

Senior Staff Engineer | NextGen Healthcare | Bangalore | 2019 – 2021

- Served as an architect in the existing team that developed the **Health Data Hub (HDH)**, a US health information exchange (HIE), enhancing data accuracy for healthcare providers.
- Built HDH as a collection of multiple **Node.js** microservices deployed on **AWS ECS**, interacting with **M2M tokens** from **Auth0** to ensure secure communication between services.
- Developed multiple **Proofs of Concept (POCs)** and created user stories for the development team to pick up in upcoming sprints.
- Presented POCs and research on new features to the architecture board to gain approval and assisted the team in implementing these features.
- Developed **Single Sign-On (SSO)** solutions for clients, integrating with their in-house SAML implementations or using **AWS Cognito**. **Auth0** served as the centralized SSO service provider, allowing for seamless integration with clients' custom user profiles, enhancing user experience from client applications to HDH.
- Stored patient records as **JSONB** documents in **PostgreSQL**, synchronizing with **Elasticsearch** for faster and scalable search capabilities.
- Migrated cron jobs to **AWS EventBridge**, boosting system reliability and automating task execution.
- Increased system stability by implementing exponential backoff for **RabbitMQ** connections in unstable environments.

Head of Engineering | buildit@Wipro Digital | Bangalore/London | 2017 - 2019

- Guided a team of 15 engineers in delivering projects for Fortune 500 clients, maintaining a **startup-like culture** within Wipro.
- Led **Open Banking Compliance** for Lloyds Bank in London, working within a **multi-vendor environment**.

- Ensured consistent delivery of digital transformation initiatives, providing technical and process leadership.

Head of Engineering | Fitkids (Digital Aristotle) | Bangalore | 2015 – 2016

- Joined as the first technical hire and launched **AssessED**, a K-12 assessment platform, from idea to market in one year.
- Deployed scanning solutions in schools to capture student assessments, sending scanned data to **AWS Cloud**.
- Developed machine learning models that assessed data based on teacher-designed rubrics.
- Created user interfaces as an **Android application** for students, teachers, and parents, along with a **web application** for reporting built using **AngularJS**, **Node.js**, **Mongoose**, **Express.js**, and **MongoDB**.
- Improved product concepts and created a roadmap to achieve product/market fit using agile methods.
- Developed machine-readable answer sheets and AI-based assessments using **CNN** and **NLP**, delivering detailed reports for parents and students.
- Set up IT HR policies, recruited top talent, and managed outsourced development partners.

Freelance Solution Consultant | 2009 - 2016

- Delivered over **60 projects** globally, helping startups and enterprises across diverse domains.
- **Solution Architect** for Aerospike, advocating clients across India on implementing **NoSQL key-value store solutions**.
- **Full time Open Source Contributor for civiCRM.** Collaborated with a remote, distributed team across Brazil, Europe and India.
- Developed custom solutions using JavaScript, Java, Kotlin, Python, Ruby, PHP, and integrated with REST APIs from Google, Facebook, and Twitter.

Professional Experience :
Senior Project Manager at Infosys, Senior Software Engineer at Kyocera Wireless, Principal Software Engineer at Honeywell, Senior Software Engineer at Patni, Software Development Engineer at Quark, Software Engineer at Zensar.

Technology Stack

- **Cloud**: AWS (Lambda, SQS, RDS, SNS, Step Functions, DynamoDB), Docker, Kubernetes
- **Languages**: TypeScript, JavaScript, Python, Ruby, Java
- **Databases**: MongoDB, PostgreSQL, MySQL
- **Frameworks**: React, Node.js, Angular
- **Monitoring**: DataDog, CloudWatch, New Relic, Sumo Logic, Splunk
- **CI/CD**: Codefresh
- **Agile Tools**: Pluralsight Flow, Jira, Confluence, Slack

Generative AI Proficiency:

- Everyday use of AI tools such as **Claude AI**, **Google Gemini**, **OpenAI ChatGPT**, and **Perplexity**.
- Utilize Claude AI to generate system prompts and ChatGPT to build engaging conversations, enhancing product functionality and user interaction.
- Experienced in integrating AI technologies to improve scalability and user experiences in various applications.

Transferable skills: Leadership, Team building, Strategic planning, Project management, Problem-solving, Adaptability, Technical expertise,Communication, Client focus, Stakeholder management, Time management, Innovation, Agile methodologies

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Education: Alumni of NIT, Nagpur (BE - Mechanical)