Amarbir Singh

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Senior Technologist with 15 years of experience building internal tools, developer platforms, and web applications for enterprise teams, with a focus on developer experience. Architected iLEAD, an internal developer platform that provisions production-ready web applications in 15 minutes for 10,000+ users at 99.9% availability, and Agent Forge, an enterprise CLI tool for generative AI prompts, agentic skills, and secure system instructions. Built React and Python internal tools, an AI chat assistant, and a 50+ component design system for enterprise teams. Mentored 25+ engineers across global delivery teams over the career, including 15+ engineers in the current role. Background in CI/CD, DevSecOps, and cloud platforms (Azure, AWS, GCP) at enterprise scale.

SKILLS

- Python, JavaScript, C#, Bash, Angular, React, NodeJs, Typescript, Go, Dotnetcore, PowerShell
- Infrastructure Automation (Bicep, Terraform, Azure DevOps. GitHub, GitLab, Terraform)
- Azure, AWS, Google Cloud, System Design and Capacity Planning
- CICD and Build Infrastructure, Docker, Kubernetes
- Claude Code, Github Copilot CLI, Kiro

WORK EXPERIENCE

Infosys Limited, Canada

Sr Staff Software Engineer / Senior Technologist **Apr 2022 - Present**

- Architected and developed Agent Forge a centralized enterprise CLI tool that unifies generative AI prompt distribution, custom agentic skills, and secure system instructions, accelerating developer onboarding and AI assisted velocity across the organization.
- Reduced deployment cycles by 20% for a Tier-1 education student information system by architecting cloud native CICD pipelines and Bicep-driven IaC.
- Mentored 15+ engineers in modern Cloud, Application Design and DevOps practices, resulting in 100% adoption of automated infrastructure workflows across 4+ teams.
- Increased operational efficiency by 25% by implementing a standardized .NET Core architecture that supported cross-functional scaling and continuous delivery for 8+ product teams.

Infosys Limited, India

Staff Software Engineer / Senior Technologist **Oct 2019 - Apr 2022**

- Platform Engineering: Architected the Infosys in-house platform, enabling 15-minute rapid deployment of production-ready web applications across Azure, AWS, and On-Prem environments.
- Enabled seamless multi-cloud deployment for the iLEAD platform as measured by 99.9% system availability through the implementation of Kubernetes, Docker, and OpenShift strategies.
- Architected a Shift-Left security framework by integrating DevSecOps pipelines into CloudBees Jenkins and Azure DevOps, standardizing automated security gates across all development workstreams.
- Engineered reusable full-stack templates using Angular, React, and VueJS integrated with NodeJS (NestJS) and Spring Boot, supporting accelerating new application scaffolding from days to hours.
- Engineered containerized solutions for diverse technology stacks (Dotnetcore, NodeJS, Spring boot etc.), improving resource utilization and portability across IIS and cloud-native clusters.

Infosys Limited, India and US

Software Development Engineer in Test **Feb 2011 - Sep 2019**

- Achieved 40% enhancement in test coverage for high-stakes financial applications by leading the design of automated report comparison tools and VBA-based frameworks.
- Automated 85% of regression testing for equity trading platforms by designing custom testing frameworks and implementing RPA solutions using Blue Prism.
- Established code review standards in Bitbucket and modular automation libraries for 60+ applications, improving maintainability and decreasing script failure by 20%.
- Coordinated global delivery across US and Indian hubs, ensuring zero-defect releases for a major financial services client.

EDUCATION

Chandigarh Engineering College, India

Bachelor of Technology, Computer Science and Engineering May 2010