AMARBIR SINGH

Senior Technologist @ Infosys Limited | Cloud and DevOps Architect | Full Stack Developer
+1 437 982 5618 | amarbir1800@gmail.com | [LinkedIn](#) | [GitHub](#) | [Medium](#)

PROFESSIONAL SUMMARY

Highly skilled Cloud Architect with 15 years of experience leading multi-disciplinary teams across software development, DevOps, and automation. Demonstrated expertise in designing and implementing developer tools, automation workflows, and cloud-native solutions. Proven technical leadership as an active contributor to open-source projects like jHipster and Kyverno. Spearheading the design of innovative, scalable CI/CD pipelines and infrastructure as code solutions. Skilled in multiple languages including JavaScript/TypeScript, C#, and Python.

EDUCATION

Bachelor of Technology in **Computer Science and Engineering |** Punjab Technical University, Punjab, India | 2006 - 2010

EXPERIENCE

Infosys Limited | Feb 2011 to Present
Senior Technologist (Azure Cloud/DevOps Architect) | Mississauga, Canada | Apr 2022 to Present

- **Reduced deployment cycles by 20%** for a Tier-1 education student information system by architecting cloud-native CI/CD pipelines and Bicep-driven IaC.
- **Mentored 15+ engineers** in modern Cloud, Application Design & DevOps practices, resulting in 100% adoption of automated infrastructure workflows across 4+ teams.
- **Increased operational efficiency** by implementing a standardized .NET Core architecture that supported cross-functional scaling and continuous delivery.

Technologies: Azure DevOps, IaC using Bicep, .NET Core, Git, Azure, AWS.

Specialist Programmer (Full Stack / DevOps Lead) | Chandigarh, India | Oct 2019 to 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.
- **Developed** interchangeable, high-standard templates using **Angular, React, and VueJS** integrated with NodeJS (NestJS) and Spring Boot, supporting complex features like **SAP UI5** controls and form-based authentication.
- **Engineered** containerized solutions for diverse technology stacks (**Dotnetcore, NodeJS, Spring boot** etc.), improving resource utilization and portability across **IIS** and **cloud-native** clusters.

Technologies: jHipster, Kubernetes, Docker, Jenkins CI/CD, React/Vue.js, Node.js, OpenShift/Rancher.

QA/Automation Lead/SDET | Irvine, US & Chandigarh, India | Feb 2011 to 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.
- **Validated** end-to-end business flow for high-stakes Equity Trading Platform and Account Systems, ensuring 100% data accuracy for day-to-day transactions and reporting.
- Established code review standards in **Bitbucket** and modular automation libraries for **60+ applications**, improving code maintainability and decreasing script failure by 20%.
- **Coordinated global delivery** across US and Indian hubs, ensuring zero-defect releases for major financial services client.
- **Engineered** custom Excel macros and automated CI batches that accelerated data comparison and report migration tasks, saving estimated 10 hours of manual labor per week.
- **Orchestrated** the migration of legacy Java/SQR reports to Business Objects, utilizing advanced **SQL queries** to validate data integrity across thousands of financial records.

Technologies: Test Automation, VBA Development, SQL, Framework Design, Custom Testing Framework, Blue Prism RPA, Financial Systems.

RECENT PROJECTS

Infrastructure as Code (IaC) Automation
- **Developed reusable enterprise modules** for cloud resource provisioning, which scaled a defense-focused automation strategy across multiple global teams, standardizing deployment practices.
- **Implemented robust GitOps practices** for infrastructure management, resulting in measurable improvements in deployment consistency and audit compliance.
- **Published technical papers** on IaC principles, fostering collaborative learning and establishing best practices across the engineering department.

Technologies: Azure, Bicep, ARM Templates, PowerShell, Azure DevOps.

Cloud Migration and Modernization Lead
- **Architected and executed the successful migration** of mission critical student information system to the Azure cloud platform, ensuring zero-downtime and enhanced system reliability.
- **Pioneered modern DevOps practices** in collaboration with cross-functional teams, streamlining deployment processes and driving system reliability improvements by an estimated **25% faster deployment lead time**.

Technologies: Azure, DevOps, CI/CD, Infrastructure as Code, Automation.

jHipster Dotnetcore Maintainer
- Collaborated with the JHipster dotnetcore community as an active contributor and maintainer.
- Contributed to fix various bugs, new features (terraform scripts), and documentation.

Technologies: Ejs, Node.js, Dotnetcore, TypeScript, IaC, Terraform.

SKILLS
- **DevOps/Cloud:** GitHub Actions, CI/CD, GitOps, GitHub Flow, Containers, Kubernetes, Infrastructure as Code, Cloud Platforms, DevSecOps, SRE, Automation.
- **Development:** JavaScript/TypeScript, Python, Node.js, React, API Design, System Design, TDD, Open Source.
- **Tools/Platforms:** Git, GitHub, VS Code/VS, Jenkins, Azure DevOps, Jira, Confluence, OpenShift, Rancher, PowerShell, Bash.
- **Soft skills**: Mentorship, Collaboration with stakeholders, Direct communication.

CERTIFICATIONS
- Certified Kyverno Associate (CKA) - CNCF
- GitOps Certified Associate (CGOA) - CNCF
- Microsoft Azure Administrator Associate (AZ-104) - Microsoft
- Microsoft Azure AI Engineer Associate (A1-102) - Microsoft
- Microsoft DevOps Solutions (AZ-400) - Microsoft
- Associate Cloud Engineer - Google
- AWS Cloud Practitioner - Amazon
- Machine Learning Foundations - eCornell

PUBLICATIONS
- https://www.infosys.com/iki/perspectives/accelerate-innovation-innersource.html