

Darshan Chheda

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Summary

Versatile software engineer with a foundation in finance, leveraging analytical precision and business acumen to architect scalable tech solutions that drive efficiency and impact. Eager to contribute leadership in full-stack innovation to a collaborative team, blending domain knowledge with technical expertise to solve complex problems at global scale.

Education

Queen's University Belfast <i>Master of Science in Software Development (Distinction Expected)</i> <ul style="list-style-type: none">• Relevant Coursework: Software Engineering, Cloud Computing & DevOps, Distributed Systems, Object Oriented Programming, User Experience Design	Sept 2024 – Present Belfast, UK
University of Mumbai <i>Bachelor of Commerce in Finance and Accounting (First Class Honours)</i> <ul style="list-style-type: none">• Relevant Coursework: Database Fundamentals, Statistics for Business, Introduction to Quantitative Finance, Econometrics, Capital Markets	2020 – 2023 Mumbai, India

Experience

Freelance Android Developer <i>Patreon</i> <ul style="list-style-type: none">• Designed reusable UI templates in XML for 20+ clients, significantly streamlining their development workflows.• Built consistent and animated user interfaces following Material Design guidelines, enhancing application usability and developer adoption.	Oct 2023 – Jun 2024 Mumbai, India
Quality Assurance Tester Intern <i>XSILICA Software Solutions Pvt. Ltd.</i> <ul style="list-style-type: none">• Enhanced payment gateway Transaction Per Second (TPS) by 3% by proactively detecting and addressing performance bottlenecks.• Improved application security by identifying critical bugs in the PayG payment gateway, contributing to a more secure platform.• Contributed to 4 successful software releases by executing thorough manual and automated testing.	Apr 2023 – Oct 2023 Hyderabad, India

Projects

TextOps <i>Kubernetes, Docker, AWS, GCP, Prometheus, GitLab CI/CD</i> <ul style="list-style-type: none">• Architected a multi-cloud microservices platform (AWS, GCP, Rancher) to achieve high availability and fault tolerance via automated failover mechanisms.• Established a fully automated DevSecOps lifecycle with GitLab CI, integrating security scans (SAST, container) to secure deployments across multiple cloud environments.	Jul 2025 - Present
Echo Echo <i>WebRTC, Kademlia DHT, VanillaJS</i> <ul style="list-style-type: none">• Engineered a decentralized architecture using WebRTC for P2P connections, providing E2E encryption that eliminated single points of failure and all server operational costs.• Validated platform viability by successfully demonstrating secure, real-time messaging to over 50 users at a competitive hackathon.	May 2025
Academic Student Management System <i>Node.js, Express.js, JWT, MySQL</i> <ul style="list-style-type: none">• Implemented JWT-based authentication and session management to secure the application against the OWASP Top 10 vulnerabilities.• Built a comprehensive RESTful API to streamline all CRUD operations, enabling efficient and secure data handling for administrative users.	Feb 2025 - Mar 2025
Save the Planet <i>Java, JUnit, Jira, GitLab</i> <ul style="list-style-type: none">• Led a five-member team as Scrum Master, managing the project lifecycle with Jira and GitLab to ensure timely, requirements-driven delivery of the final product.• Authored a comprehensive suite of JUnit tests to achieve 100% code coverage and conducted rigorous peer code reviews, significantly improving software quality and reliability.	Jan 2025 - Mar 2025

Technical Skills

Languages: Java, JavaScript, SQL
Frameworks: Spring Boot, Express.js, Node.js, React
Cloud & DevOps: AWS, GCP, Docker, Kubernetes, GitLab CI, Jenkins, Prometheus, Grafana, Terraform
Databases: MySQL, PostgreSQL, MongoDB
Methodologies & Principles: Agile (Scrum, Kanban), DevSecOps, OOP, RESTful APIs, SOLID Principles
Tools: Git, GitLab, Jira, Postman, Maven
Professional Skills: Problem-Solving, Leadership, Cross-Team Collaboration, Time Management

Certifications

AWS Cloud Quest: Cloud Practitioner — Amazon Web Services
AWS Cloud Quest: Generative AI Practitioner — Amazon Web Services
Machine Learning I — Columbia University
Java Certification with Honors — CoderPad

Hackathons

- NASA | Space Apps Challenge** | *London, UK*

Aug 2025 - Present

 - Selected to compete in a 48-hour global hackathon focused on developing innovative solutions using NASA's open-source data.
 - Preparing to form a team to build a prototype addressing key challenges in areas like climate change.
- Google Cloud | GKE Turns 10 Hackathon** | *EMEA*

Aug 2025 - Sep 2025

 - Built predictive AI agents on GKE to combat ecommerce fraud using multi-agent systems without requiring any core service changes.
 - Achieved 95% detection accuracy and 40% latency reduction while maintaining GDPR-compliant anonymization.
 - Developed real-time dashboard with React and optimized autoscaling for handling 100x traffic spikes.
- KAINOS | Code Connect Challenge** | *Belfast, UK*

Jan 2025

 - Built the frontend for a secure, role-based login system using HTML, CSS, JavaScript, and EJS.
 - Implemented backend authentication with Express.js, using JSON to manage session data.
 - Worked within an Agile workflow using Trello, earning a commendation for the system's professional design and implementation.
- Alteryx | Datathon** | *Belfast, UK*

Nov 2024

 - Used Alteryx to analyze a large public health dataset, identifying key trends in drug abuse patterns.
 - Developed data visualizations, including scatter plots and heat maps, to present complex findings as actionable insights.
 - Delivered the final presentation to a panel of judges, securing a top 3 runner-up position for the team.

References

Available upon request.