# Darshan Jayeshbhai Shah

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## Education

**Northeastern University** | CGPA: 3.9/4.0 *Boston, MA*
Master of Science, Computer Science Sep 2023 – Sep 2025
**Key Coursework:** Program Design Paradigm, Algorithms, iOS Development, Cloud Computing, NLP, MLOps

**Gujarat Technological University** | CGPA: 8.78/10 *Gujarat, India*
Bachelor of Technology, Computer Engineering Aug 2015 – May 2019
**Key Courswork:** OS, Theory of Computation, Cryptography, Analysis of Algorithms, Big Data, Computer Network

## Technical Knowledge

**Languages**: Java, Python, Typescript, JavaScript, JQuery, HTML5/CSS3, SQL, NoSQL, Shell, Bash, PHP, Swift
**Frameworks**: Spring Boot, Fast API, Django, Node.js, gRPC, Flask, JUnit, Hibernate, .Net, Express.js, Blazor
**Databases**: MongoDB, PostgreSQL, MSSQL, MySQL, GCP (GCS, Cloud Run), AWS (S3, EC2), NoSQL, Redis
**Tools**: Git, Docker, Claude Code, Jenkins, Copilot, Kafka, ElasticSearch, K8s, RabbitMQ, Cursor, Linux, Postman
**Cloud**: AWS (S3, EC2, ECS, RDS, Lambda, Cognito, SNS, SQS), GCP (GCS, Cloud Run, GCE), Azure (B2C tenant)
**AI/ML**: OpenAI, Google Gemini, CNNs, Airflow, Mlflow, Google Colab, Pinecone, RAG Pipelines, Prompt Engineering
**Concepts**: Single-Page Applications (SPA), Component-Based Design, Real-Time UI, Secure Routing, Modular Codebase, CI/CD Workflows, Cloud Computing, Data Visualization, Data Processing at Scale, Foundation of Algorithms, System Design, Saas

## Experience

**Software Engineer** | Liberating Technologies Inc. | Holliston, MA Jan 2025 – Present
- Developed a connected health cloud for bionic devices, enabling seamless integration with mobile apps and embedded electronic systems for real-time monitoring.
- Implemented CSV export for 20+ reports to facilitate data ingestion into python scripts for analysis.
- Containerized with Docker, Kubernetes and integrated CI/CD pipelines, achieving 60% faster deployment.
- Optimized 100+ complex PostgreSQL queries, reducing average execution time by over 40% and significantly improving application responsiveness.

**Software Engineer** | NetU.ai | Gujarat, India Apr 2022 - Aug 2023
- Spearheaded the migration of core microservices using Java (11 & 17), Spring Boot and React from Monolith integrating with Kafka and Redis to reduce data processing latency by 40%.
- Led the development of pivotal product features, including networking groups, targeted ads, marketing tools, events and user timeline features, leading to a 30% surge in user engagement and daily platform activity.
- Amplified search performance by 30% with Elasticsearch, improving data access and rising user activity.
- Utilized GCP services including GCE, Pub/Sub, Cloud SQL, & GKE to streamline application deployment.

**Software Developer** | Sculptsoft | Gujarat, India May 2019 – Dec 2020
- Collaborated with 2 cross-functional Scrum teams to successfully implement 3 major projects, fostering Agile practices, promoting a culture of continuous learning in the Software Development Life Cycle.
- Designed RESTful APIs using Python, Fast API and Flask, handling 1M+ daily API requests.
- Incorporated Facebook, Twitter, SerpAPI, Quickbooks, and Twilio APIs, cutting delivery time by 25%.
- Architected a notification system for 10k+ users, overseeing 50+ notification types across various channels.

## Projects

**ClimaSmart** | *GCP, Github actions, Airflow, MLFlow, GCS, Pandas, Numpy, Scikit-learn, Python*
- Led a team of 5 to engineer 'Clima-Smart,' an end-to-end MLOps pipeline on GCP for climate prediction (e.g., temperature), automating data ingestion (OpenMeteoAPI), model training, and deployment to GCE.

**Smart Healthcare** | *Spring MVC, JSP, MySQL, HTML, CSS*
- Developed a responsive full-stack smart healthcare system using Spring MVC, MySQL and JSP, enabling efficient management of patient, doctor, and medical records, leading to a 35% improvement in data accuracy and accessibility.