

# DHWANIL PANCHANI

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## EDUCATION

### Master of Science in Information Systems

Sept 2023 - May 2025

Northeastern University, Boston, MA

Relevant Coursework: Data Science & ML, GenAI, DSA, Web Design, Application Engineering, Parallel ML(HPC)

### Bachelor of Engineering in Computer Engineering

Jul 2019 - May 2023

Gujarat Technological University, Gujarat, India

## TECHNICAL SKILLS

**Languages:** Java, Python, C#, C++, JavaScript(ES6+), TypeScript, SQL, HTML, CSS, Node.js

**Tools:** Docker, Kubernetes, Jenkins, Terraform, Ansible, Git, GitHub, GitLab, CI/CD pipelines, Azure DevOps, AWS

**Frameworks/Libraries:** React.js, Angular, Vue.js, Express.js, Django, Flask, Spring Boot, .NET Core

**Databases:** Microsoft SQL Server, MongoDB, MySQL, PostgreSQL, AWS S3, Firebase, Cassandra, Redis

**Test Automation & Tools:** Selenium, Mocha, Jest, Postman, Visual Studio Code, Swagger, JIRA, Cypress, Puppeteer

**Cloud Platforms:** AWS (EC2, S3, Lambda, RDS, DynamoDB), Microsoft Azure, Google Cloud Platform (GCP)

## EXPERIENCE

### Software Engineer

Aug 2021 - Jul 2023

TechVizor

*Surat, India*

- Architected 8+ full-stack applications using React.js, Node.js, Express.js, and TypeScript, serving 100K+ users with <200ms response times
- Engineered CI/CD pipelines with Jenkins, Docker, and AWS ECS, reducing deployment time by 70% and enabling daily releases for 15+ microservices
- Automated infrastructure using Terraform, Ansible, and Kubernetes, achieving 99.95% uptime across 50+ AWS/Azure cloud resources
- Integrated TensorFlow and Python ML models with REST APIs, processing 2M+ daily transactions and improving prediction accuracy by 40%
- Spearheaded 5-person development team using Agile/Scrum methodologies, delivering 20+ features while mentoring junior developers and reducing code defects by 50%
- Optimized database performance using PostgreSQL, MongoDB, and Redis caching, improving query response times by 65% for 500K+ concurrent users

### Software Engineer Intern

May 2021 - Jul 2021

TechVizor

*Surat, India*

- Mastered Java, Python, JavaScript, React.js, and AWS/Azure cloud services in 30 days, contributing to 3 cross-functional Data Analytics and Cybersecurity projects
- Maintained CloudOps infrastructure with Docker, Kubernetes, and Terraform, achieving 99.9% uptime across 5+ microservices through 25+ code reviews
- Developed RESTful API solutions with Node.js, MongoDB, and SQL databases, reducing bugs by 30% and improving client satisfaction by 20%

## PROJECTS

### Full Stack Space Exploration Database Management Application (MSSQL, Docker, SwingUI) [View](#)

- Architected SQL Server database with 20 tables, 31 constraints, 6 stored procedures, and 4 triggers, scaling to handle 10,000+ space exploration records efficiently
- Implemented column-level encryption and Java Swing GUI with CRUD operations for 20+ entities, reducing security breach risks by 40% and data entry time by 25%
- Created 15+ Power BI dashboards with logical ERD design, enabling real-time data visualization and strategic decision-making for space mission analytics

### MERN Stack Job Hiring Platform (MongoDB, Express.js, React.js, Node.js) [View](#)

- Implemented secure authentication (bcrypt, session management) and designed 8+ responsive pages with React.js, ensuring seamless UX across devices
- Built a fully responsive job platform with role-based access, enabling CRUD operations for 100+ job listings and user profiles via RESTful APIs
- Deployed on Heroku with 99.9% uptime, managed 50+ Git commits, and scaled MongoDB to handle 1,000+ users