DAKSH GOTI

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# EDUCATION

## Master of Science – Computer Science Aug 2023 – May 2025 (Expected) California State University, Long Beach, CA GPA:3.6

**Bachelor of Engineering – Computer Engineering Aug 2020 - Jun 2023**

Charotar University of Science and Technology, Gujarat, India **GPA: 3.85**

**Related Course Work:** Advance AI, Machine learning, Pattern Recognition, Advance Algorithm Design, Advance Software Engineering, Spark, Data Visualization, Object Oriented Design, Search Engine Technology, Cloud Computing, Operating System, Distributed System

# WORK EXPERIENCE

**SOFTWARE DATA ENGINEER**  **Nov 2023 – Present**

**Metrology Services** (Long Beach, CA)

* Led healthcare light meter project processing **millions** of data points using **Python** backend pipeline, improving processing speed by **65%**.
* Developed data platform with **React.js**, **TypeScript**, and **MongoDB**, implementing **GraphQL** APIs that enhanced query efficiency by **55%**.
* Engineered **Apache Spark** streams with **ML algorithms** and **Amazon Redshift** to analyze **10TB+** of clinical data with **99.9%** accuracy.
* Designed data architecture with **Azure CosmosDB**, **Data Factory**, and **API Management** for HIPAA-compliant healthcare data processing.
* Applied **Microservices** architecture with **gRPC** communication protocols that refined system modularity and reduced API latency **45%**.
* Utilized **Kubernetes** orchestration with **Terraform** for infrastructure-as-code, achieving **99.99%** system availability and **30%** reduced deployment times.

## SOFTWARE DEVELOPMENT ENGINEER Jun 2021 – Jun 2023

**Quad Softech** (Surat, India)

* Architected microservices with **.NET Core**, **C#**, and **LINQ** improving query performance by **45%**.
* Integrated **React**, **Node.js**, and **Next.js** for responsive interfaces.
* Designed embedded monitoring system for **9500+** businesses using **Azure** backend and **ML.NET** algorithms, reducing downtime by **40%**.
* Applied **Azure Lambda** functions processing **1.5 million** daily events with **99.9%** reliability and created **Power BI** dashboards improving forecast accuracy by **25%**.
* Built full-stack solutions combining **JavaScript** frameworks with **.NET** backend using **REST APIs** and **SignalR** for real-time updates.
* Led **Agile** development and established **Git/GitHub** workflows, while implementing comprehensive testing with **xUnit**, **Jest**, and **Selenium** achieving **95%** code coverage.
* Led Agile adoption and implemented monitoring systems with **CloudWatch** and **Prometheus**, resulting in **30%** faster project delivery.

## SOFTWARE DEVELOPMENT ENGINEER INTERN Jun 2019 – May 2021

[**JSP**](https://www.crestdatasys.com/) **Developer Pvt. Ltd** (Surat, India)

* Engineered microservices architecture with **Java** and **Spring Boot**, improving scalability by **30%**.
* Automated **CI/CD** pipelines with **Jenkins**, reducing integration time **70%**.
* Migrated logs to a **serverless** architecture, saving 3 hours per person daily.
* Built responsive Ad Banner frontend with **React** and **Redux**, integrating payment gateways and **Git version control**. Improved user engagement by **35%**.
* Developed backend using **Java Spring Boot**, **PostgreSQL**, and **RESTful APIs**. Executed location-based targeting with **Redis**, increasing ad relevance by **40%**.
* Implemented containerization with **Docker** and **Kubernetes**, enhancing deployment efficiency.

**SKILLS**

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| **Programming Languages:** | Java, Python, GO Lang, C++, C, R, Kotlin, Dart, C#, PHP, .NET |
| **Web Development**: | TypeScript, GraphQL, React.js, Node.js, Express.js, JavaScript, Bootstrap, JSON, SCSS, HTML5, REST API |
| **Data Engineering:** | PySpark, Tableau, Looker Studio, LLM, Fine-tunning, RAG, Data-Pipeline, Image Processing |
| **Cloud Platforms:** | AWS, Azure |
| **DevOps Tools:** | Kubernetes, Docker, Jenkins, Terraform, GitLab CI, GitHub Actions, Git |
| **Databases:** | DynamoDB, Mongo DB, MySQL, AWS RDS, Redshift, PostgreSQL |
| **Tools & Practices:** | Git, Agile, JIRA, Power BI, Looker Studio, Selenium, xUnit, Jest |

**PROJECTS**

**Smart Healthcare -** (React.js, JavaScript, Django, NodeJS, Git, PostgreSQL, Looker, TensorFlow, CI/CD) [ [GitHub](https://github.com/dakshgoti14/Disease-Prediction) ]

* Boosted hospital efficiency by 40% with new features like live chat and diagnosis prediction.
* Refined system configuration with the AWS CI/CD pipeline, deployed Looker Studio for enhanced administrative data visualization, and controlled robust data storage and analytics with PostgreSQL, improving system efficiency by 30%.

**Sales Prediction -** (Node.js, JavaScript, MongoDB, GitHub, Django, Git, AWS (EC2, Lambda, API Gateway, CloudWatch logs)) [ [GitHub](https://github.com/dakshgoti14/Sales-Prediction) ]

* Built a Sales Prediction system with React.js, Node.js, MongoDB, and Django, integrating a PyTorch ML model and optimizing API interactions, resulting in a 30% reduction in system complexity and a 25% decrease in bugs.