

## SKILLS:

**Languages/Database:** Python, JavaScript, Java, R, SQL

**Frameworks/Tools:** AWS, Flask, Django, ALM octane, OpenText, POWER BI

**ML/Gen AI Frameworks:** Pandas, NumPy

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## EXPERIENCE:

### United Health Group | United State | Developer and Analyst | Sep 2024 - Present

- Automated data cleaning and preprocessing pipelines in Python, improving data quality by **20%** and reducing preprocessing time by **30%**, while optimizing SQL ETL processes to boost query execution efficiency by **25%**.
- Developed and launched advanced Tableau dashboards utilized by over **300** decision-makers, incorporating action filters and calculated sets to facilitate enhanced risk analysis and strategic operational decisions.
- Engineered database objects, including complex stored procedures and triggers, to streamline data retrieval for cross-functional teams, and conducted exploratory data analysis on claims data to uncover actionable insights, resulting in improved **KPIs** and business outcomes.
- Designed Machine Learning models using SQL and Python including Decision Trees, Clustering and Association Rule methods to gain insights for targeted marketing which increased the clients ROI on marketing spend by 13%.
- Worked collaboratively with business analysts to translate operational requirements into scalable technical workflows, ensuring seamless communication between databases and front-end reporting dashboards.

### Brain byte Infotech | Surat, India | Software Developer | June 2019- June 2022

- Created REST APIs and dynamic web interfaces using Django, JSPs, and JavaScript, enhancing user interaction.
- Optimized application performance and reduced response times by 15% through rigorous testing, debugging, and refactoring.
- Worked collaboratively with business analysts to translate operational requirements into scalable technical workflows, ensuring seamless communication between databases and front-end reporting dashboards
- Led the migration of legacy REST API to a **GraphQL**-based architecture cutting down the average API response time by **20%**, reducing API complexity and enhancing developer productivity.
- Maintained **100TB** big data systems and ETL pipelines, reducing data retrieval time by **30%** and enabling faster, more efficient CI/CD cycles, accelerating deployment of machine learning models.

### Easy laser tech | Surat, India | database management intern | Aug 2018-Mar 2019

- Made flexible websites using HTML/CSS and PHP technology for hotels to connect with their 3 Branches.
  - Developed the Microservices for hotels such as book rooms, Payments, availability, daily statements services.
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## EDUCATION:

### University of New Haven

Master of Science in cybersecurity and networks

**Sept 2022 - Aug 2024**

### Parul Institute of Technology

Bachelor of Technology in Computer Engineering

**Aug 2016 - Aug 2020**

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## ACADEMIC PROJECTS:

### Bank Database Management System | SQL | POWER BI

- Designed banking data manager using SQL.
- Developed monitoring and manipulating data capabilities including fund transfer, loans, and transactions.
- Analyzed and presented banking data in structured format to make informed decisions.

### Human Resources Management Software | Java

- Developed a fully functional Human Resources management system which can maintain records of company's finance.
- Implemented intuitive Graphical User Interface on top of SHA-256 hashing secured password mechanism.

### Warehouse Inventory Manager | Python

- Designed software giving orders when a product quantity crossed the stock limit (can be varied)
- Updated orders when product was delivered and maintains in and out flow.

### Calculator App | Python

- Created GUI based calculator application with all basic functions using python module of Python programming language.
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## LEADERSHIP & EXTRA-CURRICULARS

- Leadership:** Mentored a team of **6** junior engineers, conducting bi-weekly sprint planning as Scrum Master and code reviews.
- Awards:** Won prestigious hackathons including Gujarat Hack-a-thon 2021, HexaHive 2.0 Hack-a-thon 2019.