

Dev Patel

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Education

Texas A&M University, College Station

May 2025

Bachelor of Science in Computer Science – Honors, Minors in Statistics and Mathematics; Deans Honor Award

GPA: 3.7/4.0

Relevant Coursework: Analysis of Algorithms, Data Structures and algorithms, Machine Learning, Artificial Intelligence, Database Management, Operating Systems, Computer architecture, Programming Languages, Coursera ML specialization, Udemy data science bootcamp, Udemy mastering DSA; LinkedIn SWE

Skills

Languages/Frameworks: Python, SQL, C#, C/C++, Java, Spring, JS/HTML/CSS, React, Node/Express, Django, RubyOnRails, Flutter, Redux

Tools: AWS, My/PSQL, REST, Docker, Kubernetes, .NET, GRPC, Jenkins, Apache, ETL, GraphQL, JIRA, Redis, MongoDB, Firebase, Postman

Experience

Software Engineering Intern, Ansys, Austin TX

May 2024 – Dec 2024

- Implementing **.NET, and C# WebAPIs** for system migrations, utilized **GRPC** and **COM** interfaces for data transfer across microservices.
- Solved **12+** bugs across multiple architecture layers and languages (C#, C++, Python, JS, Angular) using dynamic tracing, memory profiling.
- Crafted **REST/MVC** requests for async tasks, batch script automation for efficient file deployment and **IronPython** for scripting simulations.

Data Engineer, Texas A&M University

Nov 2023 – Feb 2024

- Architected, Deployed Python-based **ETL workflows to automate** data cleansing integration across **5+** multi-source datasets
- Boosted disaster management strategies by implementing ML algorithms, **25%** improvement in predictive analysis using **Pandas, SciPy, SQL**
- Refined reporting processes, using complex SQL queries (CTEs, views) and used **Power BI, Tableau** for visualizing strategic decision-making.

Software Engineering Intern, Sigma InfoSolutions

May 2022 – Jul 2022

- Improved on an e-commerce transaction **React/Spring Boot** feature, enhancing UI/UX and backend APIs using **Vuejs** and **PowerBI** insights.
- Elevated **PostgreSQL** and **MongoDB** using **Hibernate**, optimizing data transactions and query performance by **30%** for financial analytics.
- Extended **AWS infra (S3, EC2, RDS)** for new features and monitoring; maintained CI/CD via Jenkins and **Kubernetes**.

Full Stack Developer, Texas A&M University

Aug 2022 – Dec 2022

- Modeled a full-stack web application using **Express.js+Node** for server-side processing, integrating **React, Xamarin** for client-side rendering.
- Advanced SQL database management with SQL query structuring, indexing, caching using **Redis** for reducing API latency.
- Hosted applications securely on **AWS**, integrating client requirements with JIRA and Git, and boosted backend performance by **20%**.

Machine Learning Research Assistant, Texas A&M University

May 2022 – Aug 2022

- Piloted **5+** predictive Machine Learning Models using Decision Trees and Random Forest for advanced malware threat analysis.
- Implemented **React-based** analytics dashboard visualizing **30k+** malware datapoints using python libraries and **Ghidra** reverse engineering.

Software Engineering Intern, 4C Consulting

May 2023 – Jul 2023

- Employed **RESTful APIs** for server-side data handling and storage solutions in Python and PSQL databases, focusing on system efficiency.
- Designed responsive web interfaces with HTML, CSS, JavaScript; improved deployment using Jenkins, Agile, Git, JIRA, Postman, GraphQL.

Projects

ProphetAI, <https://github.com/DevPatel3547/ProphetAI->

Feb 2025

- Created an anything probability calculator app with over **10000+** uses, leveraging **Flutter Web, Firebase** and statistical models.
- Integrated 5 AI models (Meta Llama, Cohere, OpenRouter, Groq, Mistral) via REST APIs, added request caching and queueing for efficiency.
- Optimized performance with SQLite, **Cloud logging**, and **ELK stack**, enabling efficient query execution for a 30% reduce in latency.
- Applied scalable microservices with **Docker**; Deployed with Firebase Hosting & Github actions for CI/CD lines ensuring automated builds.

Quant A&M WebApp, <https://github.com/DevPatel3547/QuantA-M>

Jan 2024 - April 2024

- Constructed "QuantA-M", a **Ruby on Rails** app with **300+ users**; **PostgreSQL+Docker** for DB schema and **TDD** using RSpec and reviews.
- Implemented CI/CD pipelines with **GitHub Actions** and **Heroku**, managed project workflows using Jira in alignment with Agile methodologies

Customer POS System, <https://github.com/DevPatel3547/CustomerPOSSystem>

Aug 2023 – Dec 2023

- Launched a React.js app with Redux; Node.js backend; REST API using async-await, axios, Postman; PSQL ORM, GMAP APIs; Docker

Algorithmic Trading Model, <https://github.com/DevPatel3547/AlgorithmicTradingModel>

May 2023 – Aug 2023

- Devised **LSTM** model in **TensorFlow/Keras**, used regression, mean reversion for ML; Backtested on historical data using Yahoo Finance API.

Overse Browser, <https://github.com/DevPatel3547/OverseBrowser>

Apr 2023 – Nov 2023

- Developed "Overse" browser with Python, PyQt5 and SQL; Featuring multi tabbed browsing, GUI, and security using **OpenSSL, AES**.