DEV PATEL

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EDUCATION

Texas A&M University   Aug 2021 – May 2025
Bachelor of Science Computer Science - Honors, Minors in Stats and Mathematics; GPA: 3.5, Dean's Honors Award
Relevant Coursework: Analysis of Algorithms, Data Structures and algorithms, ML, AI, Operating Systems, Computer architecture, Programming Languages, Coursera ML specialization, Udemy data science bootcamp, Udemy mastering DSA; LinkedIn C++ Developer
Campus Involvement: Aggie Competitive Programming Club, Aggie Coding Club, TAMU Cyber Security Club, Google SDC

SKILLS

Languages/ Frameworks: Python, SQL, C/C++, Java, JS/HTML/CSS, React, Node, Django, TypeScript, Docker, Spark, ETL, ORM
Tools/Technologies: My/PSQL, Git, REST APIs, AWS, Kubernetes, Jenkins, Apache, RubyOnRails, ETL, GraphQL, JIRA, Heroku

EXPERIENCE

Incoming Software Engineering Intern at Ansys, Austin, TX   May 2024 – Aug 2024

Data Engineer, *Mays Business School*   Nov 2023 – Mar 2023
•Architected and deployed Python-based **ETL workflows to automate** data cleansing, normalization, and integration of multi-source datasets.
•Enhanced disaster management strategies by implementing ML algorithms, focusing on predictive analytics using **Pandas, SciPy, and SQL**.
•Refined data analysis and reporting processes, employing complex SQL queries and data visualization tools for strategic decision-making.

Software Engineering Intern, *Sigma Infosolutions*   May 2022 – Jul 2022
•Developed an e-commerce transaction **React/Spring Boot** feature, enhancing UI/UX and server interactions for client experience optimization.
•Elevated **PostgreSQL** and **MongoDB** using **Hibernate**, optimizing data transaction and enhancing query performance for financial analytics.
•Automated data operations with **Apache Airflow** and **Spark**, streamlined **AWS Glue ETL**, improving data management efficiency.
•Built **AWS S3, EC2, RDS** for scalable infra and predictive models with **Scikit-Learn**, elevated **CI/CD** with **Docker, Kubernetes, + Jenkins**.

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 using HTML, CSS, and JavaScript, improving UI and data collection across platforms.
•Used Jenkins for CI/CD, enhancing deployment and project lifecycle - Agile, Git, JIRA, and boosted API speed with Postman and GraphQL.

Full Stack Developer, *Texas A&M University*   Aug 2022 – Dec 2022
•Developed a full-stack web application using **Express.js+Node.js** for server-side processing, integrating **React** for client-side rendering.
•Advanced SQL database management and optimization, ensuring efficient data transactions and responsive user interactions.
•Hosted applications securely on AWS, integrating client requirements with JIRA and Git, and boosted backend performance using Python.

Student Research Assistant, *Texas A&M University*   May 2022 – Dec 2022
•Piloted predictive models using machine learning algorithms (**Decision Trees, Random Forest**) for advanced malware threat analysis.
•Implemented a **React-based analytics dashboard** for visualizing data extracted from malware samples using **Python libraries**.
•Conducted malware code analysis employing reverse engineering with **Ghidra** and feature extraction algorithms for detection accuracy.

PROJECTS

Quant A&M WebApp, *https://github.com/DevPatel3547/QuantA-M*   Jan 2024 - Present
•Constructed "QuantA-M", a **Ruby on Rails** app, for a quantum computing club; **PostgreSQL + Docker** containers for database schema.
•Implemented CI/CD pipelines **with GitHub Actions** and **Heroku**, managed project workflows using Jira in alignment with Agile methodologies.
•Utilized RSpec, Brakeman, RuboCop for **TDD**, enhancing application reliability and maintainability through rigorous code reviews.

Algorithmic Trading Model, *https://github.com/DevPatel3547/AlgorithmicTradingModel*   May 2023 - Present
•Devised a machine learning algorithm using **LTSM networks in TensorFlow and Keras**, focusing on analyzing stock market trends.
•Integrated financial APIs like Yahoo Finance for data; set various market indicators to train the model (**Logistic regression, mean reversion**).
•Conducted back testing with historical data to measure and enhance performance, with ongoing improvements in data and algorithm efficiency.

Customer POS System, *https://github.com/DevPatel3547/CustomerPOSSystem*   Aug 2023 – Dec 2023
•Engineered a **scalable React.js web application**, optimizing UX through reusable components and **Redux** for state management.
•Formulated backend with **Node.js+Express.js; created RESTful APIs using async-await + axios** for data interaction with a **PSQL database**.
•Employed Postman for testing and system integration, utilized ORM, GMAP, and weather APIs, ensuring reliability - Docker + cloud solutions.