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 SWE Developer
Campus Involvement: Aggie Competitive Programming Club, Aggie Coding Club, TAMU Cyber Security Club, Google SDC

SKILLS

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

EXPERIENCE

Software Engineering Intern, *Ansys, Austin TX*   May 2024 – Dec 2024
· Implementing **.NET, Signal R and C# WebAPIs** for system migrations, utilized **GRPC** for efficient data transfer across microservices.
· Solved bugs across multiple architecture layers and languages (C#, C++, Python, JS, Angular) using dynamic code tracing and memory profiling.
· Crafted **REST/MVC** requests for async tasks on web-responsiveness, **SignalR** for bi-directional sync and **IronPython** for scripting simulations.

Data Research Analyst, *Texas A&M University*   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.
· Drove data flow **with Apache Airflow, Spark; built AWS infra (S3, EC2, RDS);** improved ETL via **Glue**; CI/CD with **Kubernetes + Jenkins.**

Full Stack Developer, *Texas A&M University*   Aug 2022 – Dec 2022
· Modeled 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 visualizing malware data analyzed with 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

AI Enhanced Language Learning Platform   Sept 2024 – Present
· Created an AI human tutor app using Python, Django, React, TypeScript, **OpenAI GPT API** for dynamically adaptive lessons.
· Fused live voice interaction using **Whisper API, Asyncio, WebSockets**, enabling interactive lessons with human like open ended conversations.
· Managed data with PostgreSQL, Redis, GraphQL, SQLAlchemy; ensured security via **JWT authentication**, HTTPS, input validation.
· Applied scalable microservices with Docker, Kubernetes; CI/CD pipelines using Jenkins; Logging with **ELK Stack**; ongoing enhancements.

Quant A&M WebApp, *https://github.com/DevPatel3547/QuantA-M*   Jan 2024 – Apr 2024
· Constructed "QuantA-M", a **Ruby on Rails** app, for computing club; **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, cloud.

Algorithmic Trading Model, *https://github.com/DevPatel3547/AlgorithmicTradingModel*   May 2023 – Aug 2023
· Devised **LSTM** model in **TensorFlow/Keras** with Yahoo Finance API, using regression, mean reversion for analysis; Backtested on historical data