Dev Shah

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PROFESSIONAL EXPERIENCE

Dassault Systèmes   Mar 2025 – May 2025 | San Diego, US
Software Engineer Intern (Python, React, Postgres, GitHub, Docker, CAD Integration) 🔗
- Built Python APIs to process molecular and simulation data, integrating Postgres for structured storage and Docker for reproducibility, which enabled **efficient collaboration** between design engineers and business teams across complex aerospace projects.
- Developed CAD-linked visualization dashboards in React, surfacing analytics from 500K+ simulation logs, which provided **clear insights** for cross-functional engineers without requiring manual dataset parsing.
- Automated validation scripts and integrated them into GitHub pipelines, achieving **error-free releases** while enabling consistent reproducibility in multi-environment builds.

Wildcat Discovery Technologies   Jul 2024 – Nov 2024 | San Diego, US
Software Engineer Intern (Python, C, Modbus, UART, I²C, Postgres, AWS, Docker) 🔗
- Designed connectors in Python and C to capture sensor data from furnaces and chambers via Modbus, UART, and I²C, collecting **2M+ readings per cycle** to support robust chemistry experiments.
- Collaborated with chemical engineers to normalize telemetry in Postgres, building traceable datasets used for **faster experiment cycles** in energy research.
- Debugged hardware-software failures in chambers by tracing I²C signals with oscilloscopes and adjusting drivers, which improved **system stability** during multi-day runs.
- Created structured logs (JSON/CSV) and integrated AWS CloudWatch for anomaly detection, which enabled **early alerts** for equipment issues.
- Deployed ingestion pipelines via Docker and Kubernetes, scaling throughput while maintaining **99% uptime** across peak lab runs.

Web4next   Dec 2022 – May 2023 | India
Full Stack Engineer (React, Node.js, Ripple Blockchain, AWS, Docker, Vercel) 🔗
- Built React dashboards with Node.js APIs for decentralized payments, processing **10K+ daily transactions** while providing business stakeholders clear monitoring tools.
- Configured AWS EC2 with VPCs and Dockerized services deployed via Vercel, which ensured **high availability** for blockchain services.
- Partnered with operations and growth teams to design user flows for onboarding, ensuring **smooth adoption** of the decentralized payment extension.
- Automated CI/CD pipelines with GitHub Actions, enabling **faster deployments** and reducing manual overhead for small distributed teams.

Perfect Software   Nov 2020 – Nov 2022 | India
Software Engineer (Python, Flask, MySQL, Selenium, Jenkins, Notion) 🔗
- Automated invoice reconciliation with Python and Flask APIs backed by MySQL, reducing manual entry errors by 70% and ensuring **accurate processing** of 10K+ monthly records.
- Created Selenium-based automation integrated into Jenkins pipelines, achieving **continuous validation** of healthcare applications across releases.
- Documented onboarding and testing procedures in Notion, improving **team efficiency** for new engineers in ERP development.
- Collaborated with doctors and staff to refine patient management dashboards, building features in Python and React that resulted in **higher adoption** of ERP tools.

EDUCATION

San Diego State University   Aug 2023 – May 2025 | San Diego, US
Master's in Big Data Analytics, Minor(Information Systems) - GPA : 3.4
- Coursework: Data Structures, Operating Systems, Algorithms, Cloud Computing, Database Management, Machine Learning

CHARUSAT University   Apr 2019 – Apr 2023 | India
Bachelor of Technology in Computer Science, GPA - 3.5

SKILLS

Full Stack App Development: JavaScript (ES6+), Python, C, Bash, React.js, TypeScript, Node.js, GraphQL, Figma

Cloud and Database: AWS, GitHub, Kubernetes, Jenkins, Linux, PostgreSQL, NoSQL, Snowflake, Tableau, Sigma, Grafana, Prometheus, Postman

PROJECTS

Fatal Encounters Intelligence Extractor (React.js, Node.js, OpenAI API (ChatGPT), Google Excel Sheets API, Vercel) 🔗
- Automated extraction and structuring of 100+ California fatal encounter reports, reducing manual research team effort by 90%.

JobTrackr (React/Vite, Node/Express, Prisma + PostgreSQL, n8n IMAP, Docker) 🔗
- Built a pipeline that ingests job-application emails via n8n (IMAP) → Node/Prisma API → React dashboard with drag-and-drop status changes and history, auto-classifying APPLIED/INTERVIEWING/REJECTED/OFFER and cutting manual tracking by ~90% across 200+ emails.

Launch Site Workflow Optimizer (Python, CAD, Figma, Notion, Docker)
- Built a Python-based system to model balloon launch workflows, combining CAD-based equipment layouts with a Figma-designed dashboard and Notion onboarding docs, enabling **streamlined launches** by training new operators quickly and supporting cross-team collaboration.