

Parth Gandhi

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EDUCATION

San Diego State University

Master of Science in Computer Science

Relevant Coursework | Data Structures and Algorithms, Data Science, Machine Learning

San Diego, CA, USA

Aug 2024 - May 2026

GPA: 3.8/4

Sardar Patel Institute of Technology

Bachelor of Technology in Information Technology

Relevant Coursework | Database Management System, Object Oriented Programming, Operating Systems

Mumbai, MH, India

Aug 2018 - Jun 2022

GPA: 9/10

WORK EXPERIENCE

Qualcomm

Software Engineer Intern | Airflow, Python, Ruby, Docker, PostgreSQL, Perforce

San Diego, CA, USA

Jun 2025 - Sep 2025

- Modernized legacy infrastructure by migrating Ruby workflows to Dockerized Python microservices with Airflow orchestration, adhering to DevOps best practices and **cutting cyclomatic complexity by 25%**.
- Automated migration workflows by integrating AI-assisted Qualcomm's QGenie to analyze task failures and auto-generate Python scripts and pytests, **reducing migration time by ~65%**.
- Engineered Task Launch Pad (TLP) jobs lifecycle within Airflow DAGs by implementing batch submission, query, and termination logic, leveraging PostgreSQL, which improved **test execution reliability by 20%**.

Institutional Shareholder Services

Software Engineer (Full-stack) | Python, Spring Boot, ReactJS, Docker, Redux, Redis, Git

Mumbai, MH, India

Feb 2023 - Jul 2024

- Built a standardized reporting library in Python using Pandas and ReportLab to generate dynamic tabular reports and visualizations in PDF format, enhancing back-end data handling and **reducing manual reporting effort by ~35%**.
- Conducted Test-Driven Development (TDD) approach to prototype and deliver core features of Insight Midsection project, accelerating decision-making and **enhancing UI design efficiency by ~45%**.
- Managed a team of 3 in the Investor Economics project; Played a pivotal role in designing the database architecture leading to **2x faster decision making**.
- Refactored monolithic python pipelines into a microservices based architecture, aligning with modern software development life cycle (SDLC) while **reducing maintenance efforts by 30%**.
- Took added responsibility to automate CI/CD workflow triggers and implemented full containerization using **Docker and Docker-compose**, configured Gitlab CI to build and push Docker images to artifactory.

Junior Software Engineer | Java, MSSQL, Tableau, FastAPI, JavaScript, Jira, Jenkins, PHP

Jul 2022 - Jan 2023

- Accelerated process execution from a **30-minute wait time** to an immediate response by replacing scheduled Python jobs with an event-driven architecture using **Redis streams** as a message queue, thereby eliminating user latency.
- Collaborated with cross-functional teams to design and implement a responsive web interface, using **ReactJS components and custom hooks** along with a FastAPI backend, improving web application performance by **20%**.
- Built **event-driven microservices** and scheduled **ETL pipelines** in Python, to seamlessly load financial data from different excel format and Rest API endpoints into SQL server applying custom business logic.
- Practiced Agile for continuous delivery and efficiently resolved Jira issues with average turnaround time within **24 hours**.

Web Application Intern | Flask, Pandas, ReactJS, SSRS, Linux, Power BI

Jan 2022 - Jun 2022

- Developed a web application in ReactJS using **Redux and Context API** that saved **25 labor hours per week**.
- Designed and built comprehensive business intelligence reports using SSRS, enabling informed decision-making.

KEY SKILLS

Languages	Java, Python, C/C++, Scala, PHP, JavaScript, SQL, Typescript, Ruby, HTML, CSS, Swift, C#, R
Frameworks	Spring Boot, ReactJS, FastAPI, Flask, Spark, Angular, NodeJS, Hadoop, Django
Tools	Docker, Podman, AWS, Jenkins, Redis, GitHub, Jira, Tableau, Kubernetes, AirFlow, GCP, Azure
Databases	MySQL, MongoDB, SQL Server, PostgreSQL, Oracle, Snowflake, NoSQL
Soft Skills	Communication skills, Leadership, Growth mindset, Interpersonal skills, Critical thinking, Teamwork

PROJECTS

Interactive Sign Language Translation Platform  | Python, ReactJS, Spring Boot, Torchvision, LSTM, NLP

- Designed a **natural language processing** based Indian Sign Language Recognition System using **React and Spring Boot** to recognize over 40 unique signs, improving accessibility for speech and hearing-impaired users.
- Leveraged OpenPose for feature extraction and LSTM for temporal pattern recognition to enable real-time communication, **achieving 96% accuracy** and enhancing usability in sign language interpretation.