Parth Gupta

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EDUCATION

University of California San Diego — San Diego, CA
B.Sc in Mathematics - Computer Science — *Sep. 2021 – Mar 2025*

EXPERIENCE

Software Engineer Intern — Jan 2024 – May 2024
More Seconds | *MongoDB, React, TypeScript, Node.js, Express.js, Docker, OpenAI, Python* — *Remote, USA*

- Containerized development environment with Docker, ensuring consistency and streamlined deployment.
- Performed data analysis through bar and line charts using **Jupyter Notebook** for implementing AI agent across various dashboards, improving developer task allocation accuracy by 30%.
- Developed full-stack features for developer dashboards like displaying mutual followers and billable toggle, optimizing projects and sub-projects management processes by 60%.
- Documented API endpoints and data flows; used **Postman** and **Jest** for validation of edge cases.
- Used Git and Agile methodologies for iterative development and on-time feature delivery.

Tutor — March 2023 – August 2023
Tutor.com — *Remote, USA*

- Remotely tutored students in Algebra I, Algebra II, and Geometry with tailored instruction.
- Tutored 500+ high school students, increasing participation by 35% and reducing absenteeism by 25%.
- Fostered critical thinking and confidence, contributing to increase in 75% homework completion rate.

Full Stack Intern — Aug. 2022 – Sep 2022
ThatNeedle.com | *JavaScript, Flask, HTML, CSS* — *Remote, India*

- Engineered backend pipelines to process and serve multi-year stock trend data and enabling dynamic sector-wise comparisons via **Chart.js** visualizations, driving a 30% increase in platform engagement.
- Built an interactive geo heat map with **Leaflet and D3.js** to analyze global population disparities, allowing stakeholders to identify high-risk regions for targeted resource allocation.
- Optimized visual layout and color schemes to improve readability and user engagement.

PROJECTS

Credit Card Fraud Detection | *Python, NumPy, Pandas, SciKit Learn*

- Processed 6M+ transactional records; applied SMOTE to handle imbalance, and engineered features with **MinMaxScaler** and **LabelEncoder**.
- Improved classification performance by replacing Logistic Regression with Random Forest, boosting accuracy from **92.4% to 99.9%** and **F1 score from 6.1 to 88.7**.

E-commerce Sales Dashboard | *Tableau, Excel, Financial Data*

- Used provided **ERDs** to transform multi-segment e-commerce sales data with **SQL** (JOINs, CTEs, aggregates, CASE statements), delivering clean, analysis-ready datasets for reporting and dashboards.
- Designed an interactive Tableau dashboard with **KPI cards**, **geospatial heat maps**, **dual-axis charts**, **calculated fields**, **parameter controls**, and **dashboard actions** to deliver insights by segment, region, and manufacturing origin, optimized with data source filters.

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java, C/C++, R, HTML/CSS
Web Development Skills: React Native, React NextJS, Flask, Express.js, Django, React Redux, PyGame, pandas, NumPy, Matplotlib, Scikit-learn, Socket.io, Tableau, NoSQL, MySQL, MongoDB, Supabase, REST APIs Docker, AWS, Heroku, Vercel
Relevant Coursework: Data Structures, Computer Organization, Discrete Mathematics, Data Mining, Numerical Optimization and Linear Algebra
Online Courses: GitLab CI/CD: Pipelines, CI/CD and DevOps for Beginners, Google Data Analytics, Tableau Fundamentals