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, Express, Node.js, React, Python, OpenAI* — *Remote, USA*

- Containerized development environment with Docker, ensuring consistency and streamlined deployment.
- Contributed to early planning and design discussions for upgrading AI prompts at the subtask level.
- Analyzed 50+ user prompts to uncover patterns in task breakdowns and fine tuning, improving clarity and relevance of task deliverables.
- Designed and implemented a mutual followers feature to surface developer collaboration across 100+ tasks, enhancing coordination by $\sim 150\%$ and improving page responsiveness and visibility by $\sim 30\%$.
- Built a billable-task toggle integrated across task subdivisions, improving cost tracking clarity per task.
- Performed edge case testing using Postman and Jest to validate full stack development.
- 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.
- Built an interactive heat map to reveal global population disparities, aiding stakeholders in identifying high-risk regions.
- Fostered critical thinking and confidence, contributing to increase in 75% homework completion rate.

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

- Visualized multi-year stock trends through interactive dashboards, enabling users to compare sector-wise growth and driving a 30% boost in platform engagement.
- Developed an interactive geographical heatmap to analyze global population disparities, helping stakeholders pinpoint high-risk regions for strategic resource allocation.
- Optimized visual layout and color schemes to improve readability and user engagement.

PROJECTS

AI ChatBot | *MySQL, Node.JS, Express, React, NextJS, OpenAI*
- Built an OpenAI-powered chatbot with conversation history using Next.js, React Redux, and RTK Query, secured with JWT-based authentication via Express.js REST API and MySQL, ensuring seamless user experience and secure data handling.

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java, C/C++, R, HTML/CSS
Frameworks & Libraries: React Native, React NextJS, Flask, Express.js, Django, React Redux, Zustand, PyGame, pandas, NumPy, Matplotlib, Scikit-learn, Socket.io
Databases & APIs: NoSQL, MySQL, MongoDB, Supabase, REST APIs
DevOps & Deployment: 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