

Parth Gupta

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EDUCATION

University of California San Diego

B.Sc in Mathematics - Computer Science

San Diego, CA

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.
- Contributed to early planning and design discussions for upgrading AI prompts at the subtask level.
- Analyzed 50+ user prompts using TF-IDF, n-gram extraction, and keyword frequency analysis to identify patterns when recreating AI-agents task deliverables for clarity and relevance.
- Drew mutual followers' feature system architecture using Figma, boosting coordination and engagement on shared subtasks by around 150%.
- Designed scalable frontend for per-task mutual followers using React and Redux, targeting 30% improvement in load responsiveness and SEO visibility across 100+ dynamic views.
- Engineered backend logic to extract developer collaboration graphs by analyzing multi-assignee subtasks and computing mutual contributors using set-based co-assignment mapping.
- 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.
- 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 Engineer

Aug. 2022 – Sep 2022

ThatNeedle.com | *JavaScript, Flask, HTML, CSS*

Remote, India

- Visualized multi-year stock trends with dynamic line and pie charts using Chart.js, enabling users to compare sector-wise growth and contributing to 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

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