

PARTHIB DATTA

AI Engineer | Full Stack Developer | Open Source

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SUMMARY

Experienced Full Stack/AI Developer with expertise in building applications using Node and Python. Skilled in developing modern AI/ML applications using Python, Fastapi, Langchain and Hugging Face Models. Proficient in full-stack web development using MERN stack (Mongo DB, Express, React, Node), Typescript. Strong experience in improving core products and building Web applications and infrastructure.

EXPERIENCE

Full Stack Engineer

Layer5

08/2023 - Present Austin, TX

- Improved the performance of the core product suite by 25% by optimizing code and improving database queries.
- Developed RESTful APIs for integrating with third-party systems, resulting in a 20% increase in data accuracy.
- Optimized web application performance by integrating advanced JavaScript and TypeScript techniques, enhancing speed by 20%.
- Developed an interactive dashboard for real-time data visualization, increasing data-driven decision-making by 40%.
- Implemented dashboard extension support and canvas designing, enhancing user experience and satisfaction by 35%.
- Created a reusable chatbot interface as a React component, easily integrated with a few lines of code.
- Designed robust and scalable APIs, improving data retrieval speed and reliability by 25%.

Data Analyst Intern

IBM

04/2023 - 07/2023 Austin, TX

- Mastered fundamental principles of data analysis, applying statistical methods and data visualization techniques to derive actionable insights.
- Engaged in enterprise design thinking, contributing innovative problem-solving approaches that enhance efficiency and innovation across projects.
- Developed a monkeypox detection solution using machine learning algorithms, demonstrating proficiency in applying AI techniques to healthcare challenges.

Open Source Contributor

GCC-Rust

12/2022 - 03/2023 Remote

- Learned the fundamentals and structure of Rust, and the basics of compiler design.
- Assisted project maintainers in optimizing the compiler and fixing numerous bugs, significantly reducing compilation time.
- Applied advanced optimization techniques, resulting in improved compiler efficiency and performance.

EDUCATION

Bachelor of Computer Science and Engineering

University of Calcutta

11/2021 - Present Kolkata, India

GPA

8.43 / 10.0

High School

Bruipur High School

01/2012 - 03/2020 Baruipur, India

GPA

99.5 / 100

PROJECTS

Textbase

<https://github.com/ptdatta/textbase>

Chatbot with Image and pdf chat support.

- Developed a chatbot with support for image and PDF file interactions, enhancing user engagement.
- Implemented NLP techniques for processing image and PDF content, providing accurate responses.
- Integrated image recognition and text extraction from PDFs, improving user experience.
- Secured a top rank in the Mercor AI Hackathon.

iChat

<https://github.com/ptdatta/iChat>

Chatbot with Image and pdf chat support.

- Engineered a modern MERN stack chatting application with robust user authentication, group creation, and real-time messaging capabilities.
- Integrated Socket.io for live notifications, keeping users updated on new messages in real-time.
- Delivered an immersive communication platform by connecting frontend, backend, and database to create a seamless full-stack application.

ACHIEVEMENTS & STRENGTHS



FCC Legacy Full Stack Certificate

Achieved Free Code Camp Legacy Frontend Certificate.

Link: <https://www.freecodecamp.org/certification/ptDatta/full-stack>



Agile Development

Led agile development team and increased productivity by 25%.



Problem Solving

Identified and resolved complex issues with code efficiency, saving company 15% in server costs.



Acknowledgements

"I can't believe I don't have a single point to say, this highlights the precision and creativity in your creations." - Lee Calcote, CEO of Layer5

SKILLS

MERN Stack Nextjs Prisma AI/ML

Typescript CI/CD GPT Python

Nodejs AWS Fast API REST APIs

Docker Kubernetes Django