

APURBA PATRA

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EDUCATION

Pranveer Singh Institute of Technology

Bachelor of Technology in Engineering Computer Science in Computer Science (8.5)

2020 – 2024

Kanpur

EXPERIENCES

Karman Drones

Software Engineering

December 2023 – July 2024

Noida

- Enhanced mapping precision by integrating ArcGIS into custom ground control station software, improving field operation accuracy by 20% and reducing errors by 15%.
- Utilized AWS services such as Lambda for serverless compute, DynamoDB for NoSQL database solutions, and S3 for scalable storage.
- Designed and launched a Jenkins CI/CD pipeline, automating build and deployment processes; resulted in a 40% reduction in release time and increased developer productivity by 25% through streamlined updates
- Revamped website using React JS, NodeJS improving ui and integrated stripe which led to sales boost by 30% through website.
- Took ownership of strategic quality assurance initiatives, continuously improving the QA quality and roadmap, and establishing best practices in QA.
- Set up automation testing process for web-based applications

DPDZero

Product/Tech Intern

July 2023 – October 2023

Bangalore

- Designed dashboards for Lending Systems that will handle lending and collections using Vuejs, FastAPI.
- Developed high-performing and scalable applications by implementing caching, lazy loading, and horizontal scaling techniques.
- Created test cases for financial models and interactive calculators, ensuring robustness and accuracy.
- Worked on a web scraping program in Python to download public data, enriching internal data and increasing research efficiency by over 50%.
- Implemented responsive front-end interfaces for desktop, tablet, and mobile screens using React, improving user engagement by 65%.
- Led agile software development cycles, ensuring on-time delivery of project milestones and fostering a collaborative team environment.

PROJECTS

Dall -e Website | *React, Next, Tailwind CSS, Spring Boot, MongoDB, docker, Express, and Node.js.* | [Deploy](#) [Github](#)

- Full stack MERN application built with TypeScript that utilizes the power of OpenAI's DALL-E API to generate images, and allows users to save and showcase their creations on a community gallery.
- Offered users a user-friendly and accessible tool for generating images, emphasizing ai innovation

Klass Payment App | *React.js, Next, Tailwind CSS, NodeJs, Express Js, MongoDB.* | [Github](#)

- This project aims to replicate the basic functionality of the payment app, allowing users to perform transactions, view their account balance, and interact with other users.

Stack App | *React, Next, MongoDB, ExpressJs, Tailwind CSS, AWS Cloud Services and NodeJs* | [Github](#)

- Real-time chat and messaging Channel-based communication Direct messaging between users File and media sharing Customizable notifications

TECHNICAL SKILLS

Languages: Proficient in C++, Python, Java Familiar in Golang,

Developer Tools: VS Code, Figma, PyCharm, Jupiter Notebooks, Linux, Windows

Relevant Coursework: Algorithms and Data Structures, Theory of Computation, Software Engineering and Design, Programming Languages & Techniques, Architecture, Discrete Mathematics, Operating Systems, Artificial Intelligence, Machine Learning

Technologies and Frameworks: MS Excel, Windows Scripting, HTML, CSS, ReactJs, React Native, Javascript, Tailwind, Astro, Next, Django, VueJs, Node, Express, FastAPI, REST APIs, Spring Boot, AWS, Jenkins, Kubernetes, Selenium, SDET .