Pranu Pranjal

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github.com/PranuPranjal

Education

National Institute of Technology Andhra Pradesh, B.Tech | CGPA: 8.17 — Nov 2022 – May 2026

- Major in Mechanical Engineering | Minor in Software Engineering

Experience

Software Development Intern, Directorate General of Information Systems, New Delhi — May 2024 (On Going)

- Tech Stack: Node.js, Express.js, React.js, PostgreSQL, Prisma, SAML.
- Developed a citation and appreciation filing application used by Indian Army units.
- Built a user-friendly frontend using React and a robust backend with Node.js and Express.
- Integrated SAML for centralized authentication and unique SSD-ID for digital signature.
- Set up a CI/CD pipeline for deployment.

Project Intern, Indian Institute of Technology Dharwad, Karnataka | *View-Certificate* — May 2024 – July 2024

- Tech Stack: Python-OCC, Flask, NumPy, Three.js, Plotly, HTML, CSS, JavaScript, Linux.
- Developed a web application for generating tool-paths for incremental forming processes used at IIT Dharwad and IIT Hyderabad.
- Created an interactive 3D model viewer using Three.js for enhanced visualization.
- Computed toolpaths from geometry points and normals using NumPy.
- Deployed the application on a Linux-based virtual machine.

Skills

Technical Skills: Web Development, DevOps

Concepts: DSA, OOPS

Languages: JavaScript, TypeScript, Python, HTML5, CSS3, Java,C++, SQL

Tools: Next.js, React, Node, Express, Flask, Spring Boot, MongoDB, PostgreSQL, Prisma, Git, GitHub, Docker, Kubernetes, Jenkins, AWS, SonarQube, Grafana, Prometheus, Tailwind CSS, Three.js, Pandas, Anaconda, Selenium

Projects

Project Management and Collaboration Site | 2025 — github.com/ProjectHub

- Developed a project management platform with task tracking, collaboration, and contributor discovery features.
- Tech Stack: React, Flask, MongoDB, MySQL, Docker, Kubernetes, REST APIs.
- Highlights:
  - Developed the frontend with React for smooth UX.
  - Created backend with Flask and integrated SQL and NoSQL databases.
  - Dockerized and deployed with Kubernetes for scalability.

Financial Dashboard | 2025 — github.com/FinDashboard

- Built a real-time dashboard to track, visualize, and categorize monthly expenses with budgeting features.
- Tech Stack: Next.js, MongoDB, D3.js, Plotly, WebSockets, REST APIs, Vercel.
- Highlights:
  - Integrated REST APIs and WebSockets for real-time updates.
  - Used D3.js and Plotly for dynamic data visualizations.
  - Deployed the application using Vercel.

Roles and Responsibilities

Google Developer Groups, National Institute of Technology Andhra Pradesh — Oct 2024 – Present

- Memeber, Technical Team

E-Yantra Club, National Institute of Technology Andhra Pradesh — August 2023 – Present

- Joint Secretary