Pranu Pranjal

Andhra Pradesh, India | pranupranjal4@gmail.com | +91 9065148555 | linkedin.com/in/pranu-pranjal-646505264 |
github.com/PranuPranjal | portfolio-pranu-pranjal.vercel.app

Professional Summary

Final-year B.Tech student at NIT Andhra Pradesh, skilled in full-stack development, DevOps practices, and data-driven problem-solving. Experienced in developing scalable web applications with Node.js, Next.js, React.js, PostgreSQL, MongoDB and Flask, and proficient in CI/CD automation, secure authentication, and cloud-based deployments (AWS, Docker, Kubernetes).

Experience

Software Development Intern at Directorate General of Information Systems (MoD)   May 2025 – August 2025
- Built a citation filing system using Node.js, React, PostgreSQL, and Prisma.
- Designed a scoring algorithm based on 3000 input parameters per citation.
- Implemented secure authentication via SAML and SSD-ID signatures.
- Automated deployments using CI/CD for consistent data operations.
- Integrated RAG-based chatbot using Llama 3.1 for automated query resolution.
- Authored CMMI Level 3 documentation maintaining strict SDLC compliance.

Project Intern at IIT Dharwad | *View-Certificate*   May 2024 – July 2024
- Developed a 3D toolpath generation app using Python-OCC, NumPy, and Flask.
- Implemented complex logic in concise FP-style computations (surface normals, vector paths).
- Built interactive 3D visualization with Three.js Plotly, ensuring seamless UI-UX.
- Deployed scalable web services on Linux VM with Flask + JS frontend.

Skills

Technical: Web Development, DevOps, Data Analysis, DSA, OOPs, Optimization Techniques
Languages: Java, Python, JavaScript, TypeScript, SQL
Tools & Frameworks: Node.js, Express.js, Next.js, React.js, Spring Boot, Flask, FASTAPI, .NET
Data and Intelligence: Pandas, NumPy, PostgreSQL, MongoDB, Redis, D3.js, Three.js
CI/CD: Git, GitHub, Docker, Kubernetes, Jenkins, SonarQube, AWS (EC2, S3, Elastic Beanstalk), Linux
Other: API Design, Secure Auth (SAML/OAuth), Payment Workflows, SDLC Methodologies (Agile, RAD, Spiral)

Projects

Financial Dashboard | GitHub   March 2025
- Built a real-time dashboard to track, categorize, and visualize expenses and income with Node.js, Next.js and MongoDB.
- Used WebSockets and REST APIs for live updates across sessions.
- Visualized cash flow trends, budgeting, and savings via Plotly and D3.js.
- Integrated alerts and forecasting features for spending control.
- Designed end-to-end architecture and deployed the app using Vercel.

College Placement Portal | GitHub   August 2025
- Developed a robust placement management portal handling student and recruiter data with Node.js, React.js, PostgreSQL.
- Implemented role-based access control for secure multi-user workflows (students, recruiters, admins).
- Responsive UI with Tailwind CSS.
- Optimized database queries for efficient processing of large datasets.
- Deployed using AWS RDS for Postgres database and Elastic Beanstalk for Node.js backend.

Education

National Institute of Technology Andhra Pradesh, B.Tech   November 2022 – May 2026
- Major in Mechanical Engineering | Minor in Software Engineering
- CGPA: 8.13

Roles and Responsibilities

Member, Google Developers Group (GDG)   October 2024 – Present

Joint Secretary, E-Yantra Club   August 2023 – Present