

Pranu Pranjali

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github.com/PranuPranjali

Education

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

Experience

Software Development Intern, Directorate General of Information Systems, New Delhi 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, 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, C++
Tools & Frameworks: Node.js, Express, Next.js, React.js, Spring Boot, Flask
Data and Intelligence: Pandas, NumPy, PostgreSQL, MongoDB, Kafka, DynamoDB, D3.js, Three.js
CI/CD: Git, Docker, Kubernetes, Jenkins, SonarQube, AWS (EC2, S3, SQS, Elastic Beanstalk), Linux, Prometheus
Other: API Design, Secure Auth (SAML/OAuth), Payment Workflows, SDLC Methodologies (Agile, RAD, Spiral)

Projects

Financial Dashboard | 2025 GitHub
• Built a real-time dashboard to track, categorize, and visualize expenses and income with Spring Boot, 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 | 2025 GitHub
• Developed a robust placement management portal handling large-scale student and recruiter data with Node.js, React, 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.

Project Hub – Collaboration Platform | 2025 GitHub
• Developed a collaboration platform with dashboards for team analytics using React, flask and MySQL.
• Designed metrics for contributor evaluation and task performance.
• Used MongoDB and SQL to analyze large-scale multi-user activity data.
• Deployed using Docker and Kubernetes for horizontal scalability.

Roles and Responsibilities

Member, Google Developer Groups (GDG) October 2024 – Present
Joint Secretary, E-Yantra Club August 2023 – Present