Pranu Pranjal

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github.com/PranuPranjal

Education

National Institute of Technology Andhra Pradesh, B.Tech   Nov 2022 – May 2026
- Major in Mechanical Engineering
- Minor in Software Engineering
- GPA: 8.17

Experience

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.
- Developed an interactive 3-D model viewer for visualization using Three.js, enhancing user experience.
- Numerical Computations: Generated toolpath from set of points and respective normal vectors on geometry using NumPy.
- Used a Linux-based virtual machine to host the app.

Projects

Project Management and Collaboration Site | 2025   github.com/ProjectHub
- Built a project management and collaboration platform for seamless teamwork, task tracking, and feature to search for a collaborator for a project and projects to contribute.
- Tools used: React, Flask, MongoDB, MySQL, Docker, Kubernetes, REST APIs
- Project Highlights:
  - Developed a user-friendly interface with React.
  - Created a robust back-end using Flask.
  - Implemented data storage with SQL and MongoDB.
  - Containerized the app with Docker, scaled with Kubernetes.

Financial Dashboard | 2024   github.com/FinDashboard
- Developed a real-time dashboard to visualize financial data, including stock prices and economic indicators, providing actionable insights using various financial metrics.
- Tools Used: Node.js, Express, React, MongoDB, D3.js, Plotly, WebSockets, REST APIs
- Project Highlights:
  - Integrated REST APIs and WebSockets for live data updates.
  - Utilized WebSockets for real-time updates, ensuring that the dashboard reflects the most current data.
  - Utilized D3.js and Plotly for interactive data visualizations.

Video conferencing Site | 2023   github.com/Vodcast
- Developed a Web portal for podcasting and videoconferencing, suitable for formal conferences, meetings, interviews, casual meetings, and conducting podcasts.
- Tools used: HTML, CSS, JavaScript, Node.js, Express, Bootstrap, agora.io
- Project Highlights:
  - Enabled seamless real-time communication and collaboration through the integration of agora.io.
  - Designed a user-friendly interface using Bootstrap for an enhanced user experience.

Skills

Technical Skills: Web Development, DevOps, DSA, OOPS

Languages: C++, Java, SQL, JavaScript, Python, HTML, CSS

Tools: Node.js, Express, React, MongoDB, PostgreSQL, AWS, Bootstrap, Linux, Git, GitHub, Docker, Kubernetes, Three.js, Flask, NumPy, Pandas, Anaconda