BELAGANTI MANIDEEP REDDY

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Education

National Institute of Technology Calicut — Dec 2020 - May 2024
Bachelor of Technology in Computer Science and Engineering — *Calicut, Kerala, India*
GPA : 7.28

Sri Chaitanya Bharathi Junior College — June 2018 - Mar 2020
Intermediate - Mathematics, Physics and Chemistry — *Hyderabad, Telangana, India*
Percentage : 84.2

Work Experience

Software Engineer — July 2026 - Sept 2026
Team of Silicons — *Bengaluru, Karnataka, India*

- Planned and guided Claude Code implementation of an interactive annotation studio for a Next.js 16 client built with React and TypeScript, breaking requirements into tasks, testing functionality, and directing bug fixes and UI/UX improvements; enabled users to draw and edit annotations directly on image and PDF attachments, eliminating external context switching and reducing visual feedback cycles by 40%.
- Guided Claude Code implementation of an AI-powered profile-picture generation pipeline using Django, Celery and the OpenAI API, including deployment of a dedicated AWS Fargate media worker and addition of 49 tests; validated user-facing workflows and directed iterative fixes, enabling secure, asynchronous media processing without impacting real-time hub performance.
- **Development approach:** AI-assisted development using Claude Code, feature planning, manual functional testing, and UI/UX iteration.

Software Engineer — Apr 2026 - June 2026
45d — *Bengaluru, Karnataka, India*

- Built the FastAPI backend for an internal visual AI workflow graph prototype by implementing LLM output generation abstracted in a node, Python transforms with subprocess timeouts, and a DAG executor with cycle detection and failure handling, enabling workflows to pass results between steps in dependency order and request structured JSON through a designed graph data contract and AI provider schema routing.
- Diagnosed image annotation failures in AI-generated course animations by tracing saved image coordinates through generated HTML and inspecting overlays in DevTools, distinguishing a targeting error in the saved data from missing region label elements in the generated scene and documenting candidate fixes.
- **Tech Stack:** Python, FastAPI, LLM API.

Software Engineer Intern — May 2023 - July 2023
Salesforce — *Bengaluru, Karnataka, India*

- Enhanced the Slack customer service bot used by the Public Proxy team by improving response accuracy and automation, reducing manual intervention and improving support response time.
- Integrated the Salesforce private org with the Slack bot, enabling team engineers to create work items with a simple emoji reaction directly from the Slack channel, reducing task creation time by 50% and streamlining workflow efficiency.
- Implemented a stale thread detection feature for the Slack bot, automating the identification and closure of inactive threads, which eliminated the need for manual monitoring and saved 10% of engineers valuable time.
- Integrated Splunk with the Slack bot, enabling it to automatically retrieve error logs, provide accurate error codes, and deliver troubleshooting instructions, which reduced debugging time by 60% and improved issue resolution efficiency.
- **Tech Stack:** Python, Bolt (Slack SDK), Splunk.

RELEVANT PROJECTS

Cardio ClinVar | Project Link Aug 2023 - May 2024

- Led a final year project to simplify complex genetic variant data from the ClinVar database, focusing on cardiomyopathy disease and its variants, achieving a 40% reduction in data complexity and enhancing accessibility for cardiologists and researchers.
- Developed a Flask-based web application to present simplified cardiomyopathy-related data and implemented a notification system to alert the users about real-time updates.
- **Tech Stack:** Python, Perlscript, Flask.

Mess Management System | Project Link Jan 2023 - Feb 2023

- Worked as a part of the front-end team to create homepage and warden-specific pages for the flask app, fostering a user-friendly interface.
- Collaborated with the back-end engineers to design and implement key functionalities in python for warden pages such as tracking of student mess dues by the warden of that particular hostel and efficient payment clearance by the warden.
- **Tech Stack:** Python, MySQL, Flask.

ACTIVITIES

Salesforce's AI Intern Hackathon : Detection and Removal of Bias | Project Link June 2023 - June 2023

- Employed machine learning techniques on a biased dataset, using LIME for model explanation and assessing accuracy while iteratively analyzing bias and interpretability through feature removal, retraining the model with adjusted features to reduce bias.
- Developed a Flask-based web application to make the users explore the results of the model by themselves.
- Collaborated with a team of three other interns in a 5-day hackathon to develop an interactive and functional prototype.

TECHNICAL SKILLS

Areas of Expertise: Programming, Web Development, Version Control (Github)
Languages: C, C++, Python, SQL, HTML, CSS, JavaScript, Markdown
Frameworks: Flask, Django
Tools: VS Code, Git, Claude Code
AI-assisted development: Claude Code, feature planning, task decomposition, iterative implementation guidance
Product validation: Manual functional testing, bug identification, UI/UX feedback