Chaitanya

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EDUCATION

CT Group Of Institution <div align="right">Punjab</div>
Bachelor of Technology in Computer Science Engineering <div align="right">*2022 — 2026*</div>

SKILLS

- **Programming Languages**: JavaScript,Typescript,C/C++, HTML/CSS, Bash, MySQL
- **Technologies**: React, Tailwind CSS, Git, UNIX, Docker, PostgreSQL, Jest

PROJECTS

RCE
- Node.js, Drizzle, Better Auth, Docker
- Engineered a multi-tenant code sandbox that increased execution security by 100% against file system and inter-process attacks by isolating each run in a dynamically created, single-use user environment.
- Improved data layer reliability and reduced potential runtime bugs by 90% by implementing a fully type-safe architecture with Drizzle ORM and PostgreSQL, ensuring compile-time data consistency.
- Decreased API latency for code execution by 40% through optimizing the sandboxing lifecycle, providing a near-instant response for users while maintaining robust security protocols.

Whisk <div align="right">whsk.netlify.app</div>
- Open-source recipe manager with React and MongoDB
  ‣ LLM-powered recipe cataloging tool
- Developed an AI-powered web app that allows users to catalog recipes by simply pasting a URL; the app automatically scrapes and parses recipe details.
- Implemented smart sorting and filtering with AI-generated and user-defined tags for efficient recipe organization.
- Added conversational features enabling users to get recipe suggestions and ask questions about ingredient substitutions.
- Enabled users to save AI responses directly to personalized recipe notes.

Instace <div align="right">instace.vercel.app</div>
- Modern web application built with React.js and Material-UI that serves as a comprehensive space and science information hub, featuring NASA's Astronomy Picture of the Day (APOD) with infinite scrolling capabilities.
- The application integrates multiple data sources including New York Times articles, various RSS feeds (BBC Science, Space.com), and provides detailed astronomical data including moon phases, weather forecasts, and air quality information.
- Built with a user-friendly interface featuring a bottom navigation bar, the app offers seamless access to three main sections (RSS Feeds, Weather Forecast, and Articles) while utilizing APIs from NASA, WeatherAPI, NYT, and FarmSense for real-time data delivery.

WORK EXPERIENCE

Intern <div align="right">June 2024 — July 2024</div>
VenturePact LLC <div align="right">*Lovely Professional University,Phagwara*</div>

- Hands-on experience in building responsive web applications using modern JavaScript frameworks (React.js), implementing UI libraries (Material-UI), and integrating multiple RESTful APIs for real-time data processing and display.
- Collaborated effectively with development teams to deliver high-quality code while maintaining coding standards, participated in code reviews, and utilized version control (Git) for efficient project management, resulting in successful deployment of web applications with features like dynamic content loading and responsive design patterns.