

Prahas Patterm

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EDUCATION

Purdue University

West Lafayette, Indiana

Bachelor of Science in Computer Science, Minor in Mathematics. GPA: 3.51/4.00; Dean's List Expected Dec 2023

Coursework: Data Structures and Algorithms, Software Engineering, Analysis of Algorithms, Web Application Development, Problem Solving and Object-Oriented Programming, Systems Programming, Linear Algebra

TECHNICAL SKILLS

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

Technologies: React, Flask, FastAPI, Kubernetes, Docker

EXPERIENCE

Software Engineering Intern

Bengaluru, India

Verloop.io

May 2022 – Aug 2022

- Developed an application that integrated with a multilingual Chatbot to facilitate compatibility between Instagram, WhatsApp, and Messenger for customer support.
- Automated work for ~30% of the employees by implementing REST APIs using Facade Patterns and optimized the response time for APIs.
- Built and deployed a backend server using FastAPI that serves to a frontend designed with React and TypeScript.

Research and Development Intern

Rolling Meadows, Illinois

AVS Consultants Inc

Aug 2021 – Dec 2021

- Conducted user group reviews and technology roadmap plannings to establish baselines against benchmarking for *SAT Daily* application.
- Collaborated on building design docs with UML tools that incorporated the findings of technical discussions.
- Mitigated technical risks by prototyping and PoC.

Software Engineering Intern

Bengaluru, India

L2M Rail

May 2021 – Aug 2021

- Built a cloud server using Digital Twin technology to process live data from edge servers to evaluate point machine operations, thereby gaining a 50% reduction in human force and a 40% improvement in operational efficiency.
- Employed MQTT and Kafka to exchange messages between the edge server and the cloud server.
- Generated microservices and REST APIs in Java, orchestrated using Kubernetes and Docker, and used MongoDB for storing data.

PROJECTS

Enjoygoals | 📄

Gamifying Productivity Application | React, Redux, Node, Express, MongoDB, Git, Azure

Aug 2022 - Current

- Implement a social media application as a full stack developer that helps either an individual or a team to accomplish their goals using Gamification.
- Utilize the MERN stack where the frontend is being designed using React, using cloud services from Azure, employing Node and Express for the backend, and persisting data storage using MongoDB.

Spotify Visualizer | 🎧

Spotify Visualizer Application | React, Kubernetes, Docker, Three.js, Node, Express, Git, GCP

Jul 2022 - Aug 2022

- Built a web application that utilizes OAuth and the Spotify API for visualizing personalized Spotify data.
- Created a Docker image and deployed it in a Kubernetes cluster on GCP, used React and Three.js for the frontend, and Express and Node for the backend.

Avocado | 🥑 📄

Food Delivery Application | Python, JavaScript, HTML, CSS, MySQL, Git, AWS

Feb 2022 - May 2022

- Designed a full stack food delivery application that allows customers to order food from local restaurants.
- Used Lambda Functions in Python, S3, and API Gateway from AWS for the backend, saved data to a MySQL database, and completed frontend in vanilla JavaScript, HTML, and CSS.