

Prahas Patterm

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EDUCATION

Purdue University

West Lafayette, Indiana

Bachelor of Science in Computer Science. GPA: 3.51/4.00; Dean's List

Expected Dec 2023

Coursework: Data Structures, Analysis of Algorithms, Senior Software Engineering, Operating Systems

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Java, C/C++, TypeScript, Rust, SQL

Technologies: React, FastAPI, Docker, Kubernetes, Node.js, Flask, Django, AWS, MongoDB, PostgreSQL, Git, GCP

EXPERIENCE

Software Engineer Intern | Verloop.io

May 2022 – Aug 2022

- Created an application that seamlessly integrates with a multilingual Chatbot to enhance compatibility across Instagram, WhatsApp, and Messenger platforms for streamlined customer support.
- Automated tasks for ~30% of the workforce by implementing REST APIs using Facade Patterns, consequently optimizing API response times.
- Developed and deployed a backend server using FastAPI to serve a frontend built with React and TypeScript.

Software Engineer Intern | AVS Consultants

Aug 2021 – Dec 2021

- Developed an analytics dashboard to provide improved insights into CI/CD processes that facilitated better decision-making and workflow optimization.
- Improved operational productivity by ~35% by offering an enhanced visibility of project pipelines and the various scans conducted during each pipeline's progression.
- Engineered a scalable infrastructure, uniting React, Python, Django, Jenkins, Docker, and Kubernetes for efficient frontend-backend communication and deployment.

Software Engineer Intern | 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.
- Utilized MQTT and Kafka for facilitating message exchange between the edge server and the cloud server.
- Developed microservices and REST APIs in Java, deployed the cloud server on AWS, orchestrated them using Kubernetes and Docker, and utilized MongoDB for data storage.

Undergraduate Software Development Assistant | Purdue University

May 2023 – Aug 2023

- Contributed to a computer science research project for ~30 students. [Link to Publication](#) 🔗.
- Impacted ~100 students across 4 lab courses by deriving insights from data analysis that led to a simplified and enhanced learning experience based on findings.
- Employed Flask and PostgreSQL for the backend infrastructure, and utilized Python libraries including NumPy and Pandas for data analysis and modeling.

PROJECTS

AI Healthcare | React, Django (Python), ChatGPT, Docker, K8s, PostgreSQL, Git, GCP

Aug 2023 – Dec 2023

- Building an application that leverages ChatGPT for self-diagnosis user prompts, and offers personalized review by specialists.
- Crafting the frontend with React, orchestrating the backend with Django, Docker, and Kubernetes, leveraging the capabilities of ChatGPT, and hosting the PostgreSQL database on Google Cloud Platform.

Alexa Android Integration 🎧 | Java, Alexa, Android Studio, Maven, Gradle, XML, Git, AWS

May 2023 – Aug 2023

- Created a multi-device application that uses the Alexa Voice Service to perform audio operations such as general questions, weather forecasts, Android-specific operations, and other Alexa functionalities.
- Developed the application using Android Studio, Java, AWS services, Maven, Gradle, and XML, that can be deployed across a range of devices including Android TV, phones, and tablets.

Gamifying Productivity 🎮 | React, Node.js, Express, Docker, K8s, MongoDB, Redux, Git, Azure

Aug 2022 – Nov 2022

- Engineered a gamification platform that integrates social media elements to help the achievement of both individual and team objectives to enhance productivity.
- Utilized the MERN stack with React for the frontend, employed Node and Express for the backend, orchestrated using Docker and Kubernetes, leveraged cloud services from Azure, and stored data using MongoDB.