Prahas Pattem

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EDUCATION

Purdue University West Lafayette, Indiana
Bachelor of Science in Computer Science. GPA: 3.51/4.00; Dean's List *Graduated 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, PostgresSQL, Git, GCP

EXPERIENCE

Software Engineer Intern | *Verloop.io* May 2022 – Aug 2022
- Created an application that seamlessly integrated 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 | *L2M Rail* May 2021 – Aug 2021
- Constructed a cloud server using Digital Twin technology to analyze live data from edge servers leading to a 50% reduction in workforce requirements and a 40% surge in operational efficiency.
- Implemented MQTT and Kafka to facilitate message exchange between the edge server and the cloud server.
- Developed microservices and REST APIs in Java orchestrated cloud server deployment on AWS using Kubernetes and Docker and managed data storage with MongoDB.

Undergraduate Software Development Assistant | *Purdue University* May 2023 – Aug 2023
- Contributed to a computer science research project impacting 30 students and resulting in a published work. ↗.
- Enhanced the educational experience for ~100 students across 4 lab courses by deriving actionable insights from data analysis leading to a more streamlined and effective learning environment.
- Employed Flask and PostgreSQL for backend infrastructure and utilized Python libraries such as NumPy and Pandas for data analysis and algorithmic modeling.

PROJECTS

AI Healthcare ⌂ | *React (TS), OpenAI, ChatGPT, Node.js (TS), Docker, K8s, MongoDB, Git, GCP* Aug 2023 – Dec 2023
- Developed an AI-driven healthcare application facilitating user-led diagnostics and enhancing user experience with personalized specialist feedback.
- Engineered the backend with Express and Node in TypeScript, incorporated Docker and Kubernetes for containerization, and managed database systems on GCP to ensure secure operations.

Alexa Android Integration ⌂ | *Java, Alexa, Android Studio, Maven, Gradle, XML, Git, AWS* May 2023 – Aug 2023
- Crafted a versatile multi-device application leveraging the Alexa Voice Service for conducting audio operations such as Q&A, weather updates, and Android-centric tasks, along with other Alexa-enabled features.
- Constructed the application using Android Studio, Java, AWS, Maven, Gradle, and XML, ensuring seamless deployment across various devices, including Android TV, smartphones, and tablets.

Gamifying Productivity ⌂ | *React, Node.js, Express, Docker, K8s, MongoDB, Redux, Git, Azure* Aug 2022 – Nov 2022
- Pioneered a gamification platform that merges social media elements with productivity enhancement, fostering team collaboration and individual task management.
- Implemented the MERN stack with React for the front end, Node.js and Express for the server-side, orchestrated with Docker and Kubernetes, utilized Azure's cloud services, and managed data persistence with MongoDB.