Adithya Shanker

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EDUCATION

Purdue University West Lafayette, IN

Bachelor of Science in Computer Science — Minor in Data Science, Math and Economics *Aug. 2020 – May 2024*

EXPERIENCE

Software Engineer — Jun 2023 – Present
OpsHealth — *San Jose, CA*
- Designing and developing a new product from the ground alongside a team.
- Developing a custom RAG API using Pinecone vector database, LangChain and ChatGPT to tailor LLM queries using a knowledge base of documents
- Using the NestJS framework to implement a RabbitMQ microservice to send and receive script data for execution.
- Utilizing sockets programming to send data to and from an agent server for successful execution of scripts.

Undergraduate Research Assistant — Aug 2023 – May 2024
Purdue Mechanical Engineering Lab — *West Lafayette, IN*
- Researching the identification of fluid properties using images.
- Migrating PyTorch models into TensorFlow mobile for seamless deployment onto mobile phones.
- Utilizing Android studio to develop the application for portable usage on Android.
- Collaborating with other research teams who will be using the application to run tests in their own labs.

Software Engineering Intern — May 2022 – Aug 2022
Payclip inc. — *Santa Clara, CA*
- Worked with a team focused on migrating merchant information from MySQL to AWS Dynamo DB.
- Used skills in Java, Python, RabbitMQ, AWS, SQL, Docker and Spring framework.
- Developed Unit tests using Jupiter API along with Mockito and Jenkins CI to build and verify.
- The project was used to migrate tens of thousands of merchants.

Software Engineering Intern — Jun 2019 – Oct 2019
Cyclotron Inc. — *San Francisco, CA*
- Led a team to create and implement a Microsoft Teams chatbot that was integrated with the companies APIs.
- Used skills in C and Microsoft Azure to create and test the program.
- The project was used by the companies employees to file tickets.

PROJECTS

Custom Task Manager | *C++, Linux File System, GUI Development, Qt* — December 2023
- Developed a custom task manager in C++ utilizing the Linux file system to monitor open processes.
- Created the GUI using Qt, featuring usage graphs for real-time system performance monitoring.
- Provided users with all the functionality of a regular Linux task manager, including process management and system resource tracking.

Shell | *Back end Development, Bash, Linux, C, C++* — October 2022
- Developed and designed a Shell interpreter capable of executing a variety of commands.
- Implemented features such as background processes, wildcarding and variable expansions.
- Used skills in Bash, C, C++ and Linux.

Message Board | *Back end development, Networking, Front end development, Graphics, GUIs* — July 2021
- Used Swing and Java to create the front-end for a multi-user messaging board.
- Utilized sockets programming over TCP/IP to connect the front-end to the back-end.

TECHNICAL SKILLS

Languages: Java, C, C++, HTML, Matlab, Python, SQL, Bash
Developer Tools: Spring boot, Docker, FastAPI, RabbitMQ, AWS Dynamo DB, Jupiter API, Git, GitHub, Mockito, JUnit, Maven, NumPY, PyTorch, REST API, Jenkins, Linux, Tableau, OpenGL, Agile Methodologies, Scrum
Relevant Coursework: Numerical Methods, Data Structures and Algorithms, C programming, Object-Oriented Programming, Computer Architecture, Linear Algebra, Systems Programming, Artificial Intelligence, Intro to Graphics, Analysis of Algorithms, Data Visualization, Data Mining and Machine Learning