

Abhee Jani

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor's in Computer Engineering w/ Minor in Statistics

August 2021 – December 2024

Relevant Coursework: Introduction to Artificial Intelligence, Data Structures, Digital Systems Laboratory, Computer Systems & Programming, Operating Systems, Database Systems, Algorithms/ Models of Computation

East Brunswick High School

September 2017 – June 2021

EXPERIENCE

Discover Financial Services

June 2024 – Present

Software Engineering Intern

Riverwoods IL

- Facilitating migration of team's services to OpenShift, leveraging Java and AWS technologies
- Modernizing monitoring systems by transitioning from AppDynamics to Datadog
- Provisioning third-party tools through Cloudbees using Jenkins for efficient configuration management
- Developing an automated testing pyramid within the CI/CD pipeline using Trident

Abbott Laboratories

June 2023 – May 2024

Software Solutions Intern

Champaign IL

- Developed a Python-based database management system for efficient storage and retrieval of procurement data
- Streamlined document management and collaboration by assisting in SharePoint administration, supporting data visualization with Power BI, and automating routine tasks using Microsoft Flow

Quantum and Nano-Photonics Lab UIUC

September 2022 – May 2024

Research Assistant

Champaign IL

- Developed a multithreaded Python interface to connect lab equipment to scan and collect data on nanoparticles
- Improved nanoparticle scanning efficiency by transitioning from LabVIEW to a fully developed Python script
- Evaluated real-time data analysis capabilities through testing and validation with samples

Echo Kids

May 2022 – August 2022

Frontend Software Engineering Intern

Remote

- Designed interactive music-related game webpages using JavaScript, enhancing user engagement for students
- Leveraged frontend technologies including Bubble.io for rapid application development and Figma for UI/UX design prototyping.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, HTML, CSS, R, MySQL, MongoDB, Neo4j

Tools: Git, GitHub, Docket, GCP, AWS, Azure, Jupyter Notebook, Figma, Microsoft Flow, OpenShift

Frameworks and Libraries: Spring Boot, NumPy, Pandas, React, Node.js, PyTorch, Flask, TensorFlow, Linux, Django

PROJECTS

Smart Stroll (Modified Dijkstra's Algorithm in Python)

April 2024

- Developed an optimized route planner using a custom graph-building algorithm and modified Dijkstra's algorithm
- Implemented real-time landmark integration and route optimization based on user input

Flight Insight Full Stack Application (React, Flask, HTML, CSS, MySQL, Python, GCP)

November 2023

- Developed features to display average flight delays per day of the week and total canceled flights per airline
- Created visualizations for top airports by airline volume and total weather delays by state

Custom Linux-Based Operating System

December 2023

- Developed kernel modules in C, focusing on scheduling, memory management, synchronization, and file management
- Implemented custom system calls for OS and optimized device drivers, ensuring integration with user applications

Sort Bot / Honors Lab Project

October 2021

- Created a robot utilizing Google Vision API and Raspberry Pi camera to sort pre-determined sets of objects
- Incorporated mechanical and movement components using servos, a tank chassis, tri-state buffers, and additional sensors for enhanced navigation and object handling