

Abhee Jani

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EDUCATION

Georgia Institute of Technology

August 2025 – Present

Master's in Computer Science (OMSCS) – Systems Track

GPA: 4.0

Relevant Coursework: Grad Introduction to Operating Systems, Robotics AI Techniques, Intro to Information Security

University of Illinois at Urbana-Champaign

August 2021 – December 2024

Bachelor's in Computer Engineering w/ Minor in Statistics

GPA: 3.7

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

EXPERIENCE

Meta Platforms

April 2025 – Present

Production Engineer

New York, NY

- Owned new data center region turn-ups for **90+** Meta Recommendation Systems (MRS) services across **5 regions**, coordinating **10+** cross-functional oncall teams and reducing turn-up completion time from **7 to 2 days**.
- Built **Claude skills** and CLI automations to formalize MRS infrastructure turn-up runbook execution, reducing engineering hours spent on regional capacity operations **from 2 days to a few hours**.
- Designed and deployed real-time performance variability detectors and reservation capacity monitoring pipelines, leading to **savings of over \$10M** in operational expense with faster alerting and observability.

Discover Financial Services

June 2024 – April 2025

Software Engineering

Riverwoods, IL

- Transitioned legacy cloud services to modern infrastructure, increasing service reliability **by over 75%** for customer credit services
- Led migration of **3 production services** to OpenShift, leveraging Java and AWS technologies

Business Technology Intern

Riverwoods, IL

- Modernized monitoring/alerting systems and data dashboards by transitioning from AppDynamics to Datadog
- Provisioned multiple third-party tools by using Jenkins in the CI/CD pipeline using Trident for efficient configuration

Quantum and Nano-Photonics Lab UIUC

September 2022 – December 2024

Research Assistant

Champaign, IL

- Crafted a multithreaded Python interface for nanoparticle scanning, enhancing data acquisition rates **by 20%**.
- Developed scalable integration modules interfacing with E-712 Digital Piezo Controllers, single-photon detectors, and **3+ hardware components** transitioning from LabVIEW to optimize data pipelines **by 40%** through precise value mapping and real-time data analysis.

Abbott Laboratories

June 2023 – May 2024

Software Solutions Intern

Champaign, IL

- Implemented a Python-based database management system, leveraging optimized SQL queries and efficient data structures to enhance procurement data retrieval speeds **by 50%**.
- Enhanced document management and collaboration for over **300 users** by implementing SharePoint solutions integrated with Power BI for in-depth data visualization.

PROJECTS

Smart Stroll (Modified Dijkstra's Algorithm in Python)

- Developed a personal project for an optimized route planner using a custom graph-building algorithm
- Implemented real-time landmark integration and route optimization based on user input and GCP map tools

Built Custom Operating System

- Built 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

SKILLS

Languages: Python, C/C++, SQL, Bash, Java, JavaScript, HTML/CSS

Tools: Git, Docker, Kubernetes, AWS, GCP, Jenkins, OpenShift, Jupyter Notebook, PyTorch, TensorFlow, NumPy, Pandas, React, Node.js, Flask, Django, Spring Boot

Infrastructure & Systems: CI/CD Pipelines, Container Orchestration, Monitoring & Observability, Capacity Planning, Infrastructure as Code, Linux Systems Administration, Real-Time Data Pipelines