Mohammad Shafay Joyo

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Education

Columbia University Sep 2023 - Feb 2025

Masters, Computer Science

- **GPA:** 3.5/4.0
- Coursework: Design for Generative AI, Databases, Cloud Computing and Machine Learning, Human Computer Interaction, Deep Learning for Computer Vision

NED University Oct 2019 - Aug 2023

Bachelors, Computer Science

- **GPA:** 3.7/4.0
- Coursework: Data Structures & Algorithms, Parallel and Distributed Computing, Operating Systems, Software Engineering

Technical Skills

- Languages & Scripting: Python, JavaScript, TypeScript, Go, C++, Bash, HTML, CSS
- Frameworks & Tools: React.js, Tailwind CSS, WebSockets, Flask, Github, PowerPoint, Next.js, Node.js, Django, FastAPI, ASP.NET, PostMan, Jira, Microservices
- Cloud & DevOps: Docker, Kubernetes, Jenkins, AWS, GCP, Azure, RESTful API, Linux, CI/CD, PostgreSQL
- Data & Analytics: SQL, MongoDB, Pandas, Excel, Redis, LLMs, NoSQL, Vertex AI, Oracle

Work Experience

Consult America Inc. Jun 2025 - Present

Software Engineer Intern

Ashburn, VA

- Developed full-stack features using Java, SpringBoot, and **React** to modernize legacy workflows and enhance customer-facing capabilities, aligning closely with agile business requirements.
- Collaborated with QA, designers, and business analysts during fast-paced Agile sprints to ensure technical solutions matched business goals.
- Engineered clean, maintainable code with Flask and Docker; integrated and debugged REST APIs to improve system stability and performance, demonstrating proficiency in REST API design.
- Delivered production features that reduced manual workflows by 30% and boosted team sprint velocity to 90%, ensuring high system reliability.

Nutanix Jun 2024 - Aug 2024

Member of Technical Staff Intern

San Jose, CA

- Constructed a real-time telemetry dashboard utilizing **React** and **TypeScript** along with ReactQuery and WebSockets to centralize system health metrics, reflecting strong front-end development skills.
- Optimized data flows to reduce API payloads by 30% and cut debug cycle times by 40%, thereby enhancing UI rendering efficiency and data visualization capabilities.
- Presented performance improvements to senior staff, which resulted in the companywide adoption of the dashboard within two months.

Columbia University Jan 2024 - Dec 2024

Graduate Teaching Assistant

New York, NY

- Guided students on projects involving CNNs, ViTs, GANs, and self-supervised learning, simplifying advanced concepts through labs and one-on-one support, resulting in improved student understanding
- Reviewed and optimized student Python/PyTorch code and UI for modelinspection tools, emphasizing readability and performance
- Raised average final project grades from 86% and increased students' confidence in debugging deep learning models, contributing to their academic success

Sapphire Consulting Services

Sep 2021 - Oct 2021

Karachi, Pakistan

Software Engineer Intern

- Created responsive PHP/JavaScript forms with live validation to eliminate dataentry errors and streamline user workflows
- Optimized frontend/backend interactions and refined HTML/CSS layouts, improving pageload speed by 25%
- Enhanced user satisfaction scores by 20% through continuous UI/UX improvements and performance tuning

Projects

NetGuard | Github

Created NetGuard, a lightweight Dockerized tool for real-time packet sniffing using Python and Scapy

Distributed File System | Github

• Developed using Python and Flask, emphasizing fault tolerance and high availability under node failures

PurpleHire | Github

• Built PurpleHire Agent an AI-powered interview chatbot using Next.js, GPT40, to streamline hiring workflows

RealTime Data Pipeline | Github

• Built a WebSocket server in Go with message history, notifications, and a clean UI

SmartImageLabels | Github

• Built an automated image labeling tool using AWS Rekognition and S3 for object detection