Sakxam Shrestha

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Education

Fisk University **Expected: December 2027**

Bachelor of Science in Computer Science ***GPA:3.91/4.0***

Relevant Coursework

Data Structures & Algorithms(Java), Intro to Computer Science(Python & Java), , Calculus(1 & 2), Discrete Maths, Machine Learning & Projects, Database Management, Computer Organization, Computer Security, Quantum Computing

Technical Skills

Languages: C#, Java, Python, JavaScript, TypeScript, R, Solidity
Developer Tools: Git, Linux, SQL, Docker, Postman, Model Context Protocol (MCP), AWS Cloud Technologies, Cypress.
Frameworks and Libraries: Angular, .NET, React, Express.js, Node.js, Flask, Django, Spring Boot, TensorFlow, OpenCV.

Experience

Amazon LLC **May 2025 – July 2025**

Software Development Intern *Seattle, WA*

- Under the Personalization department, designed and prototyped an LLM-powered internal chat assistant projected to reduce documentation and ticket lookup time by approximately **30%** for on-call support engineers, optimizing operational workflow.
- Integrated **MCP (Model Context Protocol)** to dynamically extract and maintain context for LLMs, improving response relevance by over **40%** in internal QA evaluations.
- Built scalable backend services using **AWS Services** (Lambda, DynamoDB, Bedrock, SQS), achieving subpar **200ms** average latency under optimized conditions, with modular design supporting future toolchain integrations.

Webacy **August 2024 - September 2024**

Web3 Security and Data Analytics Extern *Remote*

- Conducted a comprehensive analysis of smart contract vulnerabilities, identifying and labeling **50+** critical risks; this initiative enhanced the team's data categorization processes and improved overall risk assessment accuracy by **25%**.
- Conducted frequency and correlation analysis on a dataset comprising **10,000+** entries, identifying critical vulnerabilities, which streamlined reporting processes and enhanced data accuracy by **25%** through targeted statistical tools.

Tennessee Education Lottery Corporation **May 2024 – August 2024**

Data Analytics Intern *Nashville, TN*

- Interned under **Scientific Games** Department, cleaned and processed **50K+** rows of Ticket Sales Excel data using Python in Linux environment, then created interactive dashboards in Tableau, improving data-driven decision-making by **30%**.
- Built MySQL queries and dashboards to analyze sales trends, providing actionable insights for business strategy.
- Collaborated with a team of 4 interns to submit a final project on Responsible Gameplay, presented findings to the Board members, and received critical feedback.

Thurgood Marshall College Fund **March 2024 – May 2024**

MetaScholar Intern *Atlanta, GA / Remote*

- Coordinated in an immersive program focused on **Web3** and the **Metaverse** and implications for business, gaining hands-on experience in blockchain, VR and smart contracts.
- Created a **Solidity**-based smart contract that automated transaction processes, reducing manual intervention by **70%** and enabling real-time tracking of payment statuses on the **Ethereum** blockchain for enhanced user experience.

Projects

TV Series NLP Analyzer | *Python, Scrapy, Spacy, Llama 3.1, Gradio* **March 2024**

- Developed Natural Language Processing system to scrape and analyze over **10,000+** character dialogues using **Scrapy** and **Spacy**, targeting high(**95%**) accuracy in character relationship detection.
- Implemented zero-shot and custom text classifiers with a focus on achieving high precision in multi-class text classification and theme extraction.
- Created an interactive web UI with **Gradio** to integrate and showcase **NLP** models, including a character chatbot trained with **Llama 3.1**, improving response accuracy.

End-to-End Chest Cancer Classification | *Python, AWS S3, SageMaker, GitHub Actions, Docker, MLflow, DVC* **February 2024**

- Built a deep learning model using **EfficientNet-B3** for chest cancer classification, achieving **85%** accuracy on a dataset of **5,000+** chest X-ray images.
- Automated the ML pipeline with SageMaker Pipelines, MLflow, and DVC, improving experiment tracking and model versioning, reducing manual intervention by **70%**.
- Implemented CI/CD with GitHub Actions, Docker, and AWS, deploying the model with API Gateway for real-time predictions, cutting deployment time by **50%**.

Extracurricular Activities

Paypal Career Academy Fellow, HBCU Data Science Student Influncer at AUC, eLearning Teacher/Developer Intern at American Baptist College, Coding Mentor at CommuniTech Engagement, Fisk International Student Club, Fisk Computer Science Club