Somtochukwu Nwagbata

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Education

Georgia Institute of Technology   **August 2021 – December 2024**
Bachelor of Science in Computer Science   *Atlanta, GA*

Experience

Snap Inc.   **May 2024 – August 2024**
Software Engineer Intern   *Palo Alto, CA*

- Designed and implemented an internal tool for stakeholders to search and interact with Snapchat's new content tagging system, improving content moderation and understanding.
- Developed and optimized a Golang-based backend for large-scale data queries to BigQuery, ensuring seamless integration with a React frontend.
- Created a semantic text search model trained on Snapchat's content tagging taxonomy, enabling contextually relevant tag retrieval and enhancing content discoverability.

Amazon   **May 2023 – August 2023**
Software Development Engineer Intern   *Seattle, WA*

- Successfully led the conversion of a CLI-based load testing tool to a more efficient and accessible API-based service, expanding platform access to several teams.
- Utilized AWS Lambda, AWS API Gateway, Amazon DynamoDB, and AWS Cloud Development Kit to architect and implement a scalable serverless backend, optimizing cost and performance.
- Developed a responsive and intuitive React website in TypeScript, integrating Amazon's internal UI component library for a consistent user experience.

Amazon   **May 2022 – August 2022**
Software Development Engineer Intern   *Seattle, WA*

- Worked with the AWS Lambda Team to develop an internal tool aimed at reducing the operational costs associated with development stacks.
- Leveraged several AWS services including Lambda, EC2, CDK, OpenSearch (ElasticSearch), and SES in the development of the internal tool.
- Joined my team's Kanban rotation and served as the Kanban master driving daily stand-ups and sprint planning/retrospectives.

Projects

Airbnb Price Prediction Model | *Python, scikit-learn, Pandas, NumPy, matplotlib*   **January 2024 – May 2024**

- Developed and trained linear regression and multi-layer perceptron (MLP) models to predict Airbnb prices in New York City.
- Implemented comprehensive data preprocessing pipelines, including handling missing values, feature scaling, encoding categorical variables, and automated data cleaning tasks.
- Optimized model performance through hyperparameter tuning, early stopping, regularization methods, and extensive performance evaluation using metrics like mean squared error and R-squared.

Emporia | *Dart, Flutter, Firebase*   **January 2024 – May 2024**

- Led development of a mobile application for peer-to-peer thrift shopping, specifically tailored for college students, ensuring secure and user-friendly transactions.
- Conducted A/B testing on UI/UX elements, resulting in a 20% increase in user satisfaction, and integrated Google Analytics to optimize app performance and user engagement.
- Implemented an integrated payment system using Stripe API, enhancing security and ease of transactions within the app's chatroom.

Technical Skills

Languages & Frameworks: Go, Java, Dart, Python, Typescript, Flutter, React.
Developer Tools: Git, GitHub, Amazon Web Services (AWS), Google Cloud Platform (GCP)