Stephanie J. Henderson

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Education

Georgia Institute of Technology, Atlanta, GA

- **M.S. in Computer Science, Specialization: Machine Learning** August 2022 – May 2024
- **B.S. in Computer Science, Concentrations: Intelligence, Information Internetworks** August 2020 – May 2023

GPA: 3.86, **Designation:** Highest Honors

Skills

Java, Python (Pandas, TensorFlow, PyTorch, NumPy, Matplotlib), C, React, Node.js, HTML, CSS, JavaScript, Postman, GitHub, Confluence, Jest, Visual Studio Code, Material-UI, SQL, ESLint, Figma, Jira, DynamoDB, Git, Microsoft Azure

Experience

Microsoft, Atlanta, GA

Software Engineer Intern May 2023 – August 2023

- Explored Large Language Models and the concept of Generative Artificial Intelligence in order to create a specialized chatbot copilot to help increase developer productivity within a Microsoft team.
- Implemented a fully functional web-application for the chatbot using a Python (Flask) back-end with an HTML and CSS front-end. Wrote python scripts to clean large datasets and reduce noise.
- Used an OpenAI embedding model to embed data points, and calculated cosine similarity between embeddings to find relevant and accurate results. Utilized a GPT model to provide summarized results for the user.

Slalom Build, Atlanta, GA

Software Engineer Intern June 2022 – August 2022

- Implemented an internal web-application that aimed to evaluate the emotional health and productivity of a software development team over a sprint through the use of an interactive questionnaire taken during a sprint retrospective.
- Leveraged TypeScript, React, AWS tools (Lambda, API Gateway, DynamoDB), Node, Postman, Material-UI, Jest, Bitbucket, Confluence, and JIRA to build the application and track project progress.
- Engaged in scrum ceremonies, such as daily stand-up, sprint planning, backlog refinement, and sprint retrospective. Demoed completed tasks at the end of every sprint.

Georgia Tech College of Computing, Atlanta, GA

Head Teaching Assistant: Design and Analysis of Algorithms February 2023 – May 2023

- Led a group of 10-15 TA's and managed the course's gradebook. Created practice exams, held weekly office hours, graded assignments, answered questions on student discussion forum.
- Concepts covered in the course that I assisted students with include runtime analysis, divide and conquer algorithms, dynamic programming, graph algorithms, greedy algorithms, max flow algorithms, and NP completeness.
- Taught a class of 50-100 students on Maximum Bipartite Matching and Ford-Fulkerson's Algorithm for Maximum Flow.

Head Teaching Assistant: Object-Oriented Programming January 2022 – May 2022

- Managed a group of 25-30 TA's and led two weekly TA meetings centered on organizing workload and ensuring the success of the course.
- Served as a TA for 700+ students by holding 4 hours of office hours each week, contributing to exam and homework development, and responding to questions on the course's discussion forum.
- Led a weekly supplementary lecture for 20-50 students that covered concepts such as Polymorphism, Inheritance, Encapsulation, Event-Driven Programming, Interfaces, JavaFX, and Searching and Sorting Algorithms.

Projects

Community on Demand Mobile Application January 2022 – December 2022

- Created an iOS and Android mobile application that gamifies the process of understanding one's employability through the use of a card skills assessment. The app organizes a user's projects, skills, and other achievements in a resume and in dashboards to help encourage the user to accomplish their mission statement.
- Used React Native, SQL, Azure MySQL database, Firebase, JavaScript, Figma, Node, GitHub, ZenHub to create the app and track tickets.

Classification of American Sign Language Symbols using Machine Learning Fall 2022 – December 2022

- Experimented with the layers of a Convolutional Neural Network to classify symbols of ASL letters using tools such as TensorFlow, Pytorch, and Jupyter Notebook.
- Utilized the Python Augmentor Pipeline to introduce noise in order to help the model generalize well during the testing phase and achieved 95.8% test accuracy.