

Spencer Presley

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OBJECTIVE

Highly motivated computer science senior with a strong foundation in software engineering and a passion for solving complex problems. Seeking a challenging entry-level position to apply my technical skills, learn from experienced professionals, and contribute to the development of robust and innovative software solutions. Committed to continuous learning and eager to make a positive impact in a dynamic and collaborative environment.

EDUCATION

Salisbury University
Bachelor of Science in Computer Science, Minor in Mathematics

Salisbury, MD
Aug. 2021 – May 2025

TECHNICAL SKILLS

Languages: Python, Typescript, Java, C/C++, Go, HTML, CSS
Frameworks: Next.js, Flask, FastAPI, Tailwind
Developer Tools: Git, Docker, AWS S3, AWS EC2, VS Code, Android Studio, Eclipse, Vim
Libraries: pandas, NumPy, Matplotlib, LangChain, Java Swing, re, Scikit-learn, PyTorch

EXPERIENCE

Intern May 2024 – August 2024
Horn Point Laboratory | <https://saltcast.io> *Cambridge, MD*

- Developed a chatbot system using OpenAI models, FAISS, and RAG for the NSF-funded project ‘Saltcast’
- Implemented conversation and entity memory as well as asynchronous processing for real-time user interactions
- Developed a RESTful API using FastAPI and deployed the application on AWS EC2
- 🐙 Repository: <https://github.com/SpencerPresley/summer-24-research>

Researcher June 2024 – September 2024
Salisbury University *Salisbury, MD*

- Trained and benchmarked the Bitnet b1.58 model (<https://arxiv.org/pdf/2402.17764>) in two sizes (25M and 185M parameters)
- Implemented custom benchmarking tests to measure various LLM performance metrics
- Evaluated models on desktop and emulated Android mobile environments
- Presented a poster of the research findings.
- 🐙 Repository: <https://github.com/SpencerPresley/saltcast-ai-headless>

PROJECTS

TermBook | *Next.js, NextAuth.js, Typescript, Tailwind, Go* April 2024

- Developed a terminal journaling app for programmers using Next.js, NextAuth.js, TypeScript, and Tailwind on the frontend and Go on the backend
- Developed version for Windows, Linux, and MacOS
- Won best overall hack at University of Maryland College Park’s Bitcamp hackathon
- 🐙 Repository: <https://github.com/SpencerPresley/termbook>

Rommel Center Research | *Python, LangChain, Next.js, Typescript, Docker* January 2024 – Present

- Developed a multi-layer generative AI system to process and classify abstracts using OpenAI models and LangChain
- Developed a full-stack web application using Next.js
- Implemented a data collection and analysis pipeline to process over 400 article metadata records
- 🐙 Repository: <https://github.com/SpencerPresley/AcademiaAnalytics>