

Selehadin Abebe

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EDUCATION

University of the District of Columbia – Washington DC, DC

May 2027

Bachelor of Science in Computer Science, GPA: 4.0

Relevant coursework: Data Structure and Algorithm, Object oriented programming, Computer Organization and architecture, Statistics and Probability, Calculus, Discrete mathematics, Cyber laws, Machine learning

Honors & Awards: Presidential list (2024, 2025), New Futures Scholar, Phi Theta Kappa Honor Society (PTK Honors)

SKILLS & CERTIFICATIONS

- **Programming Languages:** Python, Java, C++, JavaScript, TypeScript, HTML/CSS, SQL
- **Frameworks and Tools:** React, Angular, Bootstrap, Django, Mulesoft, Docker, Ollama, REST API, Postman, Git, GitHub, Jira
- **Platforms & Systems:** MySQL, SQL Server, VS Code, IntelliJ, Windows, Linux, macOS, MS Excel, MS Word
- **Certifications:** Intermediate Technical Interview (CodePath), Intro to Web Development (Codepath)

EXPERIENCE

[Extern.com](#) - Operational Strategy Extern | Remote

June 2025 – August 2025

- Designed and deployed a **Natural Language Processing (NLP)** pipeline (**tokenization**, stopword removal, **lemmatization**, **POS tagging**) to analyze 500+ employee reviews, reducing manual analysis effort by ~70%.
- Conducted **sentiment analysis** with **TextBlob + pandas** across **Glassdoor and YouTube datasets**, generating polarity/subjectivity insights with **85%+ accuracy** across 3 employee segments.
- Enabled scalable, reproducible sentiment analysis, as measured by successful automated runs in **Google Colab**, by integrating **nltk**, **TextBlob**, **pandas**, and **matplotlib** into a fully **modular pipeline with visualizations**.

PROJECTS

E-commerce Website - Web Development

GitHub | [View Project](#)

- Developed a responsive web application using **HTML, CSS, and JavaScript**, enhancing user experience and accessibility across various devices.
- Acquired proficiency in **front-end development** frameworks and best practices for UI/UX design, contributing to visually appealing and user-friendly interfaces, improving page navigation load time by **30%**.
- Implemented **interactive features** (dynamic navigation bar, clip-path hero section, petition form), ensuring **100% functionality across 5 device types** during testing.
- Utilized: HTML, CSS, JavaScript, UI/UX best practices

Automated Support Chatbot - AI Integration

GitHub | [View Project](#)

- Developed an FAQ-matching chatbot leveraging **LLM (Ollama)** to intelligently align user queries with relevant knowledge base answers; applied **prompt engineering** to ensure consistently clean and parseable model outputs.
- Designed a dual parsing system using **regex pattern** matching and direct lookup to extract FAQ keys from responses. Implemented robust **error handling** and **optimized API** reliability by adding fallback responses, managing request/response flows, and performing status code validation to handle API failures gracefully.
- Utilized: Ollama (LLM), Regex, Prompt Engineering, API Handling, Error Management

Productivity Planner – React + Vite

GitHub | [View Project](#)

- Built a **30-day productivity web app** with **React + Vite**, featuring rotating task modes (Focus, Connect, Organize).
- Designed **reusable components** (Grid, ProductivityCard, Modal) with **CSS Grid/Flexbox** for a responsive UI.
- Structured task data with a **JSON-based program utility**, enabling future features like dark mode and localStorage persistence

LEADERSHIP & AFFILIATIONS

CodePath | Community Member | Remote

December 2024– Present

Sesdac Support for People with Disability | Volunteer | Virmillion,SD

February 2022 – May 2022

Sierra Club for environmental cleaning | Volunteer | Virmillion SD

March 2022 – May 2022