

Hiwot Alemu

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EDUCATION

Virginia Tech University— Blacksburg, VA
Bachelor of Science in Computer Science

GPA: 3.09
May 2024 Graduate

PROJECTS

BluHomes - Properties Website | *HTML, CSS, JS*

May 2024 – Present

- Designed and developed a comprehensive web application to showcase client properties, creating wireframes and data flow outlines to visualize user interactions.
- Collaborated with the client in 5+ meetings to gather and analyze requirements, incorporating feedback into the UI design created in Figma for enhanced usability.
- Crafting custom animated graphics using Canva to enrich the website's media content and user engagement.

News Bias Analysis - Project Manager | *Python, React, Flask, MongoDB, JavaScript, Node.js, Git* Jan. 2024 - May 2024

- Developed a robust web application that performs comprehensive bias analysis on news articles, leveraging NLP algorithms for enhanced user insights.
- Directed project management efforts, improving team productivity by 32% through effective coordination and communication.
- Utilized MongoDB to store and manage both article data and user information for authentication, ensuring data security and seamless user access

Personal Web and Video Server | *Computer Systems - C, Git, Linux Shell*

Oct. 2023 - Dec. 2023

- Developed a personal web server with functionalities including file serving, streaming MP4 videos, and integrating token-based authentication through JSON Web Tokens (JWT).
- Designed server to support both IPv4 and IPv6 protocols and HTTP/1.1 protocol.
- Provides user authentication via username and password, issuing a JSON Web Token (JWT) as a secure cookie upon successful login.

EXPERIENCE

Software Consultant Intern

March 2021 – Aug. 2021

IP Consulting Group - Michael Razavi

Remote

- Analyzed business models and legal strategies post-pandemic, improving operational frameworks and outcomes while engaging with clients and stakeholders to ensure alignment with their needs.
- Recommended SQL best practices and provided a comprehensive report on encryption and security measures to enhance data integrity and confidentiality.
- Successfully refined legal prosecution strategies, leading to a 30% increase in case resolution efficiency.

Software Associate Intern

Nov. 2019 – Aug. 2020

AlexRenew

Alexandria, VA

- Monitored and analyzed various data points such as water quality, flow rates, and chemical composition.
- Supervised the site; alongside working with coordinators in all departments to ensure seamless workflow and project integration.
- Analyzed large datasets, researched data logging systems, and designed algorithm for predictive modeling.
- Improvements reduced downtime by 15% over the internship period, thereby improved overall operational efficiency.

CERTIFICATE

Technology Academy Participant

June 2024 – July 2024

AT&T

Remote

- Learned Agile principles and roles to optimize development processes, while gaining knowledge in cloud computing models and exploring REST and SOAP APIs.
- Completed coursework and received certification in project management methodologies and the implementation lifecycle, enhancing skills in effective project planning and execution.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Kotlin

Frameworks: React, Node.js, Flask, JUnit, Material-UI

Developer Tools: Git, Visual Studio, Agile principles, Cloud Computing principles, Figma, UI/UX, DevOps, Jira

Libraries: NLP: SpaCY, NLTK, pandas, Requests, Express.js, Axios