

Alip Yalikun

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<https://www.github.com/AlipYalikun>

PROJECTS

Gwyneth's Gift Volunteer Management System

Fredericksburg, Virginia

Software Engineer

Jan 2023 – May 2023

- Spearheaded the development of open-source software projects, integrating finished software on the company's website, increasing volunteer sign-ups by **40%**.
- Collaborated within an **Agile framework**, driving the design and implementation of **10+** new features while enhancing existing functionalities.
- Demonstrated expertise in **PHP, HTML, CSS, MySQL, and JavaScript** to craft diverse features, ensuring a dynamic and user-friendly volunteer management system.

Teacher Assistant Chatbot

Fredericksburg, Virginia

Software Engineer/AI Development researcher

June 2023 – December 2023

- Led an independent research project focused on developing and implementing a Teacher Assistant chatbot in collaboration with a professor at Central Michigan University, supporting **50+** students' capstone projects.
- Innovated the use of the **Llama2 Large Language Model** for robust Topic Modeling, establishing the foundation of the AI infrastructure. This approach ensures a highly intelligent and context-aware chatbot, achieving a response accuracy rate of 85%.
- Orchestrated the end-to-end development process, including the design and implementation of the chatbot interface using **PHP, HTML, CSS, MySQL, and JavaScript**.

YouSum

Fredericksburg, Virginia

Chrome Extension project

February 2024 – March 2024

- Developed a Chrome extension leveraging **JavaScript** and Chrome extension **APIs** to enhance the user experience on YouTube.
- **Utilized** the RapidAPI platform to integrate external services for extracting video information and generating concise summaries using AI API, reducing information retrieval time by **70%**.
- Implemented text-to-speech feature using the **SpeechSynthesis API** to provide user with an alternative method of consuming summarized content.

DC DataFest Project

Fredericksburg, Virginia

Competition Participant

April 14-16, 2023

- **Implemented** a text classification model using Keras and TensorFlow for a Prediction Model predicting categories of questions, processing **10,000+** text entries. Employed **SimpleRNN** neural network architecture for text classification.
- **Employed** SimpleRNN neural network architecture for text classification.
- Achieved an accuracy of ~90% on the test dataset, ranking in the top **10%** of participants.

SKILLS

Has over 4 years of coding and extensive learning experience, complemented by hands-on software development projects.

- Server-side Technologies: **Java, Java Spring, Spring Boot, Python, SQL, PHP.**
- Client-side Technologies: **HTML, CSS, JavaScript, React, JSON.**
- Databases: **MongoDB, SQLite, Redis, MySQL, MariaDB, AWS DynamoDB.**
- Cloud Services: **AWS S3, AWS Lambda, AWS API Gateway, Serverless architectures.**
- DevOps Tools: **AWS CodeCommit, AWS CodePipeline, Git, GitHub.**
- AI/ML Technologies: **NLP, TensorFlow, Spacy, Keras.**
- Software Development Tools: **Jira, IntelliJ IDEA, Visual Studio, Postman, XAMPP, WireShark, Eclipse.**
- Methodologies: **Agile, SDLC.**
- Scripting: **Unix, Linux.**

EDUCATION & CERTIFICATION

Virginia Tech

Master of Engineering in Computer Science

Expected graduation: Spring/Fall 2025

Concentration: Data analysis and Machine Learning.

Courses: Machine Learning, information Visualization, Web development, Software Engineering.

University of Mary Washington

Bachelor of Science in Computer Science

Courses: Object-Oriented Analysis and Design, Application of Database, Software Engineering, Data Structures and Algorithms, Artificial Intelligence, Natural Language Processing, Software Development Tool.

CCNA Networking Certificate

August 2022 – August 2025

AWS Certified Developer – Associate

January 2024 – January 2027

AWARD & LEADERSHIP EXPERIENCE

DC DataFest “Best use of Statistic Analysis” Award

Psi Upsilon Fraternity

Academic Chair

UMW Cyber Club

Vice President