

Alip Yalikun

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EXPERIENCE

I have over 5 years of coding and extensive learning experience, complemented by hands-on software development projects.

- Proficiency in server-side Technologies such as **Java, Java Spring, Spring Boot, Python, SQL, and PHP**, for the design and development of web-based applications.
- Expertise in client-side Technologies such as **HTML/HTML5, CSS/CSS3, JavaScript, React and JSON**.
- Experience with relational and non-relational databases like **MongoDB, SQLite, Redis, MySQL, MariaDB, and AWS DynamoDB**.
- Strong command over **AWS cloud services**, including **AWS S3, AWS Lambda, AWS API Gateway, and Serverless architectures**.
- Implemented CI/CD pipelines using tools such as **AWS CodeCommit and AWS CodePipeline**.
- Utilized **Git** and **GitHub** for version control and source code management.
- Implementation of **AI/ML** technologies using **NLP, TensorFlow, Spacy, and Keras**.
- Hands-on experience in Software Development tools & methodologies like **Jira, IntelliJ IDEA, Visual Studio, Postman, XAMPP, WireShark, Eclipse, Agile methodology, and Software Development Life Cycle**.
- Creation of test cases using **JUnit** and strong debugging and troubleshooting skills.
- Familiarity with scripting languages like **Unix** and **Linux**.

PROJECTS

Gwyneth's Gift Volunteer Management System

Fredericksburg, Virginia

Software Engineer

Jan 2023 – May 2023

- Spearheaded the development of **open-source** software projects to support the organization's mission, resulting in the successful integration of finished software on the company's website.
- Collaborated within an **Agile framework**, driving the design and implementation of new features while enhancing existing functionalities. This fostered an environment of continuous improvement and adaptability.
- 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 – Current

- Led an independent research project focused on developing and implementing a Teacher Assistant chatbot in collaboration with a professor at Central Michigan University, supporting 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.
- Orchestrated the end-to-end development process, including the design and implementation of the chatbot interface using **PHP, HTML, CSS, MySQL, and JavaScript**. This diverse skill set guarantees seamless and user-friendly interaction.

YouTube video Summarizer Chrome Extension

Fredericksburg, Virginia

JavaScript/API project

February 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**.
- Implemented text-to-speech feature using the **SpeechSynthesis API** to provide user with an alternative method of consuming summarized content.
- Designed to streamline information retrieval and improve efficiency, providing users with quick access to summarized video content, which can be particularly impactful for learners and individuals seeking quick insights.

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.
- Employed **SimpleRNN** neural network architecture for text classification.
- Achieved an accuracy of ~90% on the test dataset.

EDUCATION & CERTIFICATION

University of Mary Washington

GPA: 3.6

Bachelor of Science in Computer Science

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

Virginia Tech

Master of Engineering Program

Accepted, deferred enrollment.

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

- Organized and hosted club meetings to discuss emerging trends and best practices in cyber-security.
- Hosted a successful Halloween-themed Capture the Flag event, promoting hands-on learning and team collaboration.