

OMAR ZEINEDDINE

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EDUCATION

University of Virginia, Charlottesville, VA

Bachelor of Arts in Computer Science | Minor in Data Science | GPA: 3.87

Expected May 2025

- Relevant Coursework: Data Structures and Algorithms, Computer Systems and Organizations, Advanced Software Development, Discrete Mathematics, Data Science Systems, Foundations of Machine Learning, Artificial Intelligence, Internet Scale Applications

EXPERIENCE

Sitscape Inc, Remote

Software Engineering Intern Lead

June 2024 - August 2024

- Spearheaded the development of generative AI using Python and Langchain allowing 20+ app developers to utilize AI for significantly faster full-stack application development specific to Sitscape's no-code software
- Ensured on-time project completion and high-quality output by managing a team of interns through the entire summer, measuring progress, and providing guidance with HTML, CSS, Javascript, PHP, and Python
- Developed an interactive link graph tool using D3.js, enabling users to visualize and analyze various data more effectively.
- Enhanced application accessibility and user experience by implementing responsive web components using Tailwind, ensuring seamless functionality across all devices

Sitscape Inc, Remote

Software Engineering Intern

June 2023 - August 2023

- Implemented keyword and semantic search functionality on document databases using an Opensearch cluster and RESTful API, improving keyword search speed by more than 70%
- Developed an AI document question-and-answering chatbot program with Langchain, FAISS and Python, allowing users to upload files and ask questions about their documents with a locally hosted LLM

University of Virginia Department of Computer Science, Charlottesville, VA

Teaching Assistant

January 2023 - Present

- Provide support for CS 3140 (Software Development Essentials) and CS 2130 (Computer Systems and Organizations) to 500+ students overall through weekly office hours and code-reviews for programming assignments in Java and C

PROJECTS

Hoos Reviews | Python, Django, Bootstrap, Heroku

August 2023 – January 2024

- Developed a full-stack web application to review places using Python, Django, Bootstrap, and deployed with Heroku
- Integrated Google Maps API to enable location-based reviews, while storing the data with PostgreSQL
- Enhanced user authentication and profile management by implementing Google OAuth, ensuring secure and seamless login

Memories | React Native, Firebase, Expo

July 2024 – Present

- Design and implement a mobile app using React Native and Firebase allowing users to create collaborative memories with their friends
- Enhance user experience by integrating OpenStreetMaps and Leaflet, enabling users to visualize their memories on a map
- Improve data management and real-time updates by utilizing Firebase/Firestore, ensuring constant synchronization of user-generated content across devices including shared photos and comments

Course Review Application | Java, Gradle, Git, JavaFX

April 2023 - May 2023

- Developed a course review application with Java and SQLite, enabling users to create and edit reviews in a visually pleasing dashboard
- Utilized the model/view/controller (MVC) architectural pattern to create a modularized and highly organized program structure

SKILLS

- Languages: Python, HTML/CSS, JavaScript, PHP, Java, SQL, C, R
- Tools/Frameworks: React, React Native, Firebase, Tailwind, Django, Bootstrap, Heroku, jQuery, Git, Gradle, JavaFX, Langchain

ACTIVITIES

Lebanese Club, Charlottesville, VA

President

August 2023 - Present

- Effectively lead and manage all aspects of the Lebanese Club, including event planning, budgeting, and team coordination, resulting in increased club engagement and recognition on campus welcoming 100+ individuals from different backgrounds
- Demonstrate exceptional financial management skills by securing club funding and optimizing budget utilization, ensuring the club's sustainability and growth

Interests

- Hiking, Rock Climbing, Basketball, Traveling, Pickleball