

# OMAR ZEINEDDINE

ofzeineddine@gmail.com | linkedin.com/in/omar-zeineddine | ozeineddine.github.io/portfolio-website | github.com/ozeineddine

## EDUCATION

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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

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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
- 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 chart 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

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Hoos Reviews | Python, Django, Bootstrap, Heroku | [Link](#)

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

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

## ACTIVITIES

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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