

# OMAR ZEINEDDINE

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## 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 ML, 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 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 using Agile development methods
- 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 Falcon7B 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**

*August 2023 – January 2024*

- Developed a web application for location-based reviews using Python, Django, Bootstrap, and Google Maps API, allowing users to review any place based on its location and view other users' reviews
- 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 seamless 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 comprehensive Course Review Application using Java and JavaFX for the frontend, enabling users to submit detailed course reviews and search for existing reviews stored in the backend with a SQLite database
- Utilized model/view/controller (MVC) architectural design patterns to create a modularized and highly organized program structure

## SKILLS

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- Languages: Python, HTML/CSS, JavaScript, PHP, Java, SQL, C, R
- Tools: 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