DIEGO SAAVEDRA

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EDUCATION

University of Illinois at Urbana-Champaign *Graduation Date: Dec 2024*

Bachelor of Science in Computer Science

Relevant Coursework: Data Structures, Computer Architecture, Web Programming, Database Systems, Algorithms & Models of Computation, Text Information Systems, Systems Programming

EXPERIENCE

Forward Data Lab UIUC *May 2024 – Aug 2024*

Undergraduate Researcher

- Analyzed social inequalities in faculty hiring with Cypher queries in Neo4j GDBMS and implemented a variation of Dijkstra's Algorithm on a 206-node DAG for minimal path extraction.
- Regularly studied and analyzed research papers to stay informed about developments in data and graph mining

The Grainger College of Engineering *May 2024 – Aug 2024*

NSR Group Leader

- Led NSR activities and presentations for over 2500 incoming engineering students, facilitating class registration, resolving issues, and providing guidance on campus resources and transitioning to UIUC.

Soma Reality *Jan 2024 – April 2024*

Software Engineer Intern

- Architected and deployed a scalable notification system using AWS Lambda and SNS, ensuring real-time alerts for user interactions. Improved system reliability by implementing fault-tolerant mechanisms, resulting in a 30% increase in user engagement and retention.
- Implemented a pagination feature for stories using Redux and React Native, optimizing performance and improving user experience.

University of Illinois Urbana Champaign *Jan 2023 – May 2023*

CS 397 Independent Study UIUC

- Collaborated with Professor Yuxiong Wang to implement advanced AI in mobile applications, developing image recognition algorithms for text processing and output generation.
- Conducted weekly meetings to refine methods and integrate feedback, applying cutting-edge computer vision and machine learning techniques.

PROJECTS

HelloAI *for video demonstration*

- Developed a multi-platform mobile app, inspired by Slack, enabling real-time messaging for group chats and direct messages with enhanced collaboration through the implementation of LLMs.
- Implemented photo recognition using Google Cloud Vision, enabling users to take photos of multiple-choice questions within chats. The AI provides accurate answers with explanations and suggests new practice questions.

LA Crime Observation

- Developed an advanced crime observation platform for Los Angeles, engineering an efficient data pipeline, optimizing LAPD data extraction using NumPy and integration through advanced SQL queries.

SKILLS

Programming Languages: JavaScript, Python, Java, C++

Frameworks/Tools: React Native, React, AWS, Firebase, MongoDB, Spring Boot, Redux