Yiannis Karamitros

U.S. Citizen

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Education

Lehigh University, Bethlehem, PA .... August 2020 - May 2024 (Expected)
Bachelor of Science in Computer Science Engineering .... GPA: 3.43
- **Minors**: Economics
- **Related Coursework**: Systems Software, Programming Languages, Discrete Structures and Algorithms, Computer Organization Architecture, Programming in Linux and Windows, Software Engineering, Design and Analysis of Algorithms, Blockchain Algorithms and Systems, Database Systems, Operating System Design
- **Societies**: Upsilon Pi Epsilon (Honor Society for Computing and Information), Sigma Phi Delta (Professional Engineering)

Experience

Software Engineering Intern, CSAA Insurance Group, a AAA Insurer, Remote .... May 2023 - August 2023
- Shadowed senior managers in the Application Security team to gain insights on roles and responsibilities of technical vulnerabilities
- Assessed vulnerability testing to identify and prioritize vulnerabilities based on severity, type, or time with Fortify and Burpsuite
- Executed a dashboard project for DevOps teams starting from design to implementation for comprehensible graphs and visuals of data

Undergraduate Blockchain Research Assistant, Lehigh University, Bethlehem, PA .... January 2023 - Present
- Conducted a custom implementation and application of a consensus algorithm for Central Bank Digital Currencies (CBDCs)
- Isolating a widely used consensus algorithm (SCP) and successfully simulated test cases for different global central banks
- Present weekly findings and accomplishments as well as future plans to 15+ professors and students once a week

Data Science Intern, SinLuz Ingeniería y Arquitectura, Barcelona, Spain .... May 2022 - June 2022
- Evaluate and debug algorithms that interpret images to solve computer vision problems for 800+ images in the construction sector
- Utilized the OpenCV Python library to implement new algorithmic solutions for scaling axis and features for over 800 images
- Rendered graphical results of convolutional neural networks, with scale, colors, brightness of sample, and location factors using Pandas
- Examined and restructured patterns in code for efficiency and documented code that aided in readability for future employees

System Administrator, Lehigh University, Bethlehem, PA .... September 2022 - Present
- Closely monitored manager on 10+ system admin projects to understand workloads of the faculty in the computer science department
- Research information in the IT space and troubleshoot problems or issues varying from network security to loss of passwords
- Exploration of Flask, SQLAlchemy, and other Python libraries for the implementation of a website to log hours for the department

Computer Science Engineering Lab Monitor, Lehigh University, Bethlehem, PA .... August 2021 - October 2022
- Monitored the equipment and daily activity in computer science labs, ensuring smooth operations and efficient use of resources
- Maintained lab environment of 50+ computers, performed regular maintenance and assisted students with computer operations

Courtesy Clerk, ACME Markets, Doylestown, PA .... October 2017 - August 2021
- Assisted in maintaining and facilitating daily operations at ACME Markets across 4 or more departments needing help
- Closely monitored and analyzed supervisors performance, effectively delegated tasks to departments needing improvement
- Ensuring the quality and quantity of 200+ products for filling of shelves in the produce or dairy department and reporting loss prevention

Technical Skills

- **Proficient:** Java, Python, C, C++, Rust, Bash, SQL, Microsoft Office and Google Applications
- **Familiar:** Haskell, HTML5, CSS, Solidity, Fortify, BurpSuite, Figma, AWS

Projects (More at github.com/YiannisKaramitros)

Machine Assisted Contextualization, Merck, Lehigh University .... January 2023-Present
- Utilized Python and ML/NLP libraries to test, train, and validate machine learning approaches to 10,000+ data point manufacturing lake
- Developed a web application leveraging ML/NLP techniques to reduce human effort and improve accuracy for contextualizing data
- Attended weekly meetings with a Merck employee to go over guidelines, accomplishments and future plans

Counter-Strike: Global Offensive (CSGO) Spatial Analytics, Lehigh University .... December 2022 - January 2023
- Organized and analyzed plays from 100+ games to classify human playstyle defined as risk tolerance within a particular role of a team
- Curated and engineered spatiotemporal features from 1000+ data points for geometric deep learning using Networks and clustering

Leadership and Involvement

Campus Social Impact Fellow, Lehigh University .... January 2022 - December 2022
- Organized and conducted studies on 100+ first-year students throughout campus to change recycling habits and increase sustainability
- Researched and analyzed plastic contamination to improve campus habits for technical implementation of our venture

Sigma Phi Delta Professional Engineering Fraternity, Lehigh University .... April 2021 - Present
Chaplain .... May 2022 - December 2022
Guide .... January 2022 - May 2022
- Interpersonal liaison between members and executive leaders, meeting weekly with the executive board for fraternity wellbeing
- Oversee wellbeing of 60+ active members, assisting with internal problem solving and conflict resolution by being the mediator
- Conduct one-on-one meetings with members dealing with personal or academic issues to support and share resources they may need

Computer Science Engineering Peer Mentor, Mentor Collective, Lehigh University .... August 2021 - May 2022
- Peer mentor a small group of 5 first year Engineering students to help navigate their first year
- Conducted monthly check in meetings to help point people in the right direction and give resources and guidance