LEOPING LEAIPAILOTE

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EDUCATION

Colgate University | Hamilton, New York | Class of 2024
- *Bachelor of Arts, Double Major: Computer Science & Economics*
- Cumulative GPA: 3.72/4.00, Major GPA: 3.86/4.0
- Dean's List with Distinction (Spring 2023, Spring 2022, Fall 2020)
- Morley Family Endowed Scholarship
- Relevant Coursework: Data Structures & Algorithms, Data Visualization, Software Engineering, Applied Machine Learning

RELEVANT EXPERIENCE

Software Engineering Intern | Promethean Ventures   **July 2023 – December 2023**
- Utilized the MERN stack (MongoDB, Express, React, Node.js) to help develop Amor, a student dating app inspired by the marriage pact matchmaking system found in colleges, garnering over 500 downloads within the first month.
- Collaborated with the back-end team in creating the 'Gossip Room' feature, designing and implementing controllers and API routes, while utilizing Jira to coordinate sprints with cross-functional collaborators for timely delivery, and leveraging GitHub for streamlined collaboration.
- Enhanced the user experience by developing the admin codebase to integrate push notification functionality, utilizing web sockets to relay messages and updates in real-time.

Software Engineer – Part Time | Colgate University   **December 2023 – Present**
- Developing a scheduling application for Colgate University's Art Department to automate the office hours appointment and exhibition event registration processes using React-Native, Node.js, and Express.js.
- Integrating real-time availability indicators for faculty and Google Calendar synchronization, optimizing communication between students and faculty members
- Utilizing Docker within a DevOps framework for testing and continuous integration/continuous development, achieving a 60% faster deployment cycle and a 70% reduction in environment related bugs.

Teaching Assistant | Department of Computer Science | Colgate University   **August 2022 – January 2023**
- Tutored 20 to 30 students per semester, offering guidance in debugging code, and enhancing proficiency and confidence in computer programming. Topics covered include advanced algorithms like BFS, DFS, and dynamic programming.
- Conducted weekly open-lab sessions which involved optimizing Java and Python code, including Object-Oriented programming, data structures, and run-time complexities, resulting in an average project score increase of 20%.

PROGRAMMING LANGUAGES & FRAMEWORKS:

Languages: JavaScript, HTML, CSS, Python, C, Ruby, C++ **Frameworks:** React, Django, Ruby on Rails, Express

PROJECTS

DormDine – Ruby on Rails   **August 2023 – December 2023**
- Developed DormDine, a full-stack Ruby on Rails web application, which garnered over 300 student sign-ups in the first semester, facilitating convenient pick-up orders from on-campus restaurants and allowing students to list and operate start-up dining services.
- Utilized test driven development practices to engineer automated unit and integration tests using RSpec, Capybara, and Cucumber, resulting in reliable code and a test coverage of over 95%.
- Engineered a scalable system design which involved RESTful API construction along with SQL database indexing and Active Record query optimizations, resulting in a 50% reduction in page load times.

IoT Inspector – Python   **January 2023 – May 2023**
- Identified a critical flaw in IoT Inspector's ability to detect UPNP, MDNS, and SSDP devices through rigorous experimentation with a raspberry pi and local network scanning, leading to the removal of the deprecated NetDisco library.
- Introduced a dynamic device detection feature by integrating methods from the ZeroConf library, enabling discovery of IoT devices, allowing researchers to conduct in-depth analysis of data collection methods employed by IoT devices for cybersecurity purposes.
- Implemented a data storage system for critical device attributes such as IP addresses and device type, laying the foundation for future AI-powered data clustering initiatives.

LEADERSHIP & CAMPUS INVOLVEMENT

Community Leader | Office of Residential Life | Colgate University   **August 2022 - Present**
- Organized a Diwali celebration event which included cultural dance workshops, traditional cuisine and student-led performances, by cooperating with prominent members of the South Asian community on campus in order to strengthen cultural appreciation.
- Upheld the moral integrity of Colgate University by encouraging active intervention regarding any case of discrimination, racism, and sexual misconduct to create an inclusive environment.

Social Media Coordinator | Colgate Coders | Colgate University   **August 2022 – May 2023**
- Successfully organized and promoted a Hackathon event in collaboration with Dartmouth University, attracting over 50 applications and culminating in one of our teams placing top 10 in the competition, underscoring the significant impact of social media efforts on the club's achievements and reputation.