

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: 3.73/4.00
- Dean's List with Distinction (Spring 2023, Spring 2022, Fall 2020)
- Morley Family Endowed Scholarship
- Relevant Coursework: Data Structures, Algorithms, Computer Systems, Discrete Structures

PROJECTS

GameSync – React Native, Django

Summer 2023 - Present

- Developed GameSync, an innovative mobile application designed to aid soccer players in Thailand find teams to join or opponents to play against, while simplifying the process of discovering local venues and pitch reservation.
- Utilized React Native for front-end development to create a game-like user interface, while using Django to handle API calls as well as server-side requests and responses for seamless interactions.
- Implemented a unique team profile which allowed users to find and join teams based on proximity and proficiency level, strengthening community bonding and participation. Additionally deployed a venue profile to facilitate businesses in renting out football pitches, allowing users to view open time slots and enabling venues to gauge demand levels dynamically.

IoT Inspector – Python

Spring 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 proper discovery of IoT devices. This allowed 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.

Eros – MongoDB, Express, React, Node.js

Summer 2023 – Present

- Utilized the MERN stack (MongoDB, Express, React, Node.js) to help develop Eros, a student dating app inspired by the marriage pact matchmaking system found in colleges.
- Led backend development for 'The Gossip Room' feature, designing and implemented controllers and API routes, while utilizing Jira to coordinate sprints with cross-functional collaborators for timely delivery.
- Revitalized user engagement by architecting the admin codebase to integrate notification functionality, leveraging GitHub for streamlined collaboration.

2D Scrolling Game – Java

Spring 2022

- Implemented interfaces and polymorphism concepts to differentiate similar entities that share common attributes.
- Utilized object-oriented features to produce projectile firing mechanics, entity collisions, enemy types and various in-game consumable items to create an immersive gaming atmosphere.
- Created a retro gaming experience by using photoshop to edit imported graphics to fit the pixel-art style of older 16-bit games.

RELEVANT EXPERIENCE

Department of Computer Science | Teaching Assistant | Colgate University

Fall 2022 - Present

- Tutored 20 to 30 students per semester, offering guidance in debugging code, fostering enhanced proficiency and confidence in computer programming. Topics covered include advanced algorithms like BFS, DFS, and dynamic programming.
- Conducted weekly open-lab sessions which involve optimizing Java and Python code, including Object-Oriented programming, data structures, and run-time complexities.

LEADERSHIP & CAMPUS INVOLVEMENT

Community Leader | Office of Residential Life | Colgate University

Fall 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

Spring 2023

- Orchestrated effective promotional campaigns and content strategies through Instagram and Facebook to enhance the club's online presence and engagement.
- 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.

PROGRAMMING LANGUAGES:

Strong: Java, Python, C **Experienced:** JavaScript, HTML, CSS, C++