

CLOTTEY ERNEST LANTEI

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EDUCATION

Colgate University, Bachelor of Arts, Hamilton, NY

August 2022 - May 2026

- **Majors:** Computer Science & Economics (Cumulative GPA: 3.76/4.00)
- **Relevant Coursework:** Data Structures & Algorithms, Software Analysis & Testing*, Into to Computing II (Java)

University of Manchester, Study Abroad Program

Fall 2024

- **Relevant Coursework:** Introduction to AI, Database Systems
- Enhanced my knowledge of computer science through coursework in AI and database systems, acquiring practical skills in computer vision, natural language processing, game algorithms, and efficient data management.

EMPLOYMENT

Teaching Assistant, Computer Science Department, Colgate University

Spring 2024 - Present

- Facilitated hands-on lab sessions for groups of 15 students, providing real-time debugging and support during 2-hour Java programming labs.
- Delivered one-on-one mentorship to reinforce understanding of software development principles, including clean code practices and algorithm optimization, contributing to higher overall student proficiency.

Tech Assistant, ITS Classrooms, Digital Media and Events (CDME), Colgate University

Fall 2022 - Present

- Managed the technical setup and operation of over 100 Zoom meetings and webinars, ensuring seamless execution and real-time troubleshooting for events lasting up to 4 hours.
- Oversaw and provided on-site technical support for approximately 250 events with audio-visual requirements, optimizing AV quality and addressing technical challenges promptly.
- Resolved classroom tech issues and submitted reports to supervisors to improve equipment performance and reduce downtime.

SOFTWARE PROJECTS

Personal Website: (https://ec-tino.github.io/personal_website/)

Employee Management System

- Designed an ER diagram with 20+ attributes and relationships to address employee data requirements, ensuring a robust schema for an efficient employee management system.
- Developed a backend relational database to efficiently store and retrieve employee information, optimizing data management.
- Designed and developed a dynamic, user-friendly front-end website with intuitive features for adding/removing employees, generating downloadable payrolls, and managing attendance, ensuring a good user experience.
- Created an advanced and dynamic employee directory webpage with search and filter functionality for streamlined data access.
- Utilized: MySQL, LucidChart, PHP, HTML/CSS, phpMyAdmin, AJAX, JavaScript, Bootstrap

JE Automator

- Created a back-end program that automates the journal entry stage of the accounting cycle, leveraging object-oriented design principles to enhance accuracy and efficiency.
- Integrated OpenAI's ChatGPT and Meta's LLaMA APIs to convert transaction information into precise debit and credit entries, streamlining the processing of financial transactions across various T-accounts.
- Implemented an algorithm to automate trial balance generation, significantly reducing manual effort in the accounting cycle while improving accuracy and efficiency in financial reporting.
- Utilized: Python, Requests Library, APIs, GIT

Super Scrolling Game

- Designed and developed a 2D space-themed game using Object-Oriented Programming (OOP) principles in Java, enabling players to collect coins and earn points while avoiding collisions with alien ships and meteorites.
- Implemented a dynamic difficulty scaling mechanism that increased game speed and challenge as players accrued more points, enhancing gameplay engagement and complexity.

SKILLS

Programmes: (Proficient) Python, Java, PHP, MySQL, HTML/CSS, JavaScript, C*, (Familiar) Couchbase

Libraries, and Frameworks: Bootstrap, openCV, BM-25, Requests, APIs

Tools and Platforms: MS Excel (iAct Certified, 2023), MS PowerPoint, GIT, LucidChart, Figma, phpMyAdmin

* to be completed by end of Spring 2025 semester