

Aydan Eng

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Education

Carleton University

Honours Bachelor's of Engineering, Software Engineering, CO-OP

Ottawa, ON

Exp. Jun 2027

- *Scholarships & Awards:* President's Scholarship, Henry M. Tory Scholarship, Deans' Honour List
- *Relevant Coursework:* Data Structures and Algorithms, Data Management, Discrete Structures
- *GPA:* 11.80/12.00

Skills

Programming Languages: Python, Java, C, C++, Javascript, HTML, CSS, SQL

Framework/Tools: React.js, Electron.js, Matplotlib, Numpy, Git/Github, Notion, Figma, VS Code

Other: Object-Oriented Design, SDLC methodologies, UX/UI Design, Organization, Leadership, Collaboration

Experience

Atria Court At Barrhaven

Waitstaff

Ottawa, ON

August 2022 - Present

- Ensured that the nutritional needs of **150+ residents** were met and accommodated on a daily basis
- Streamlined the serving process and developed new strategies and techniques for serving residents and cleaning, leading to **20% less time** needed to finish serving all residents and reset the dining room
- Successfully trained **8+ new waiters**, ensuring attention to detail and a comprehensive understanding of hospitality and restaurant practices

LDHSS LINK Crew Leader

LINK Leader

Ottawa, ON

February 2022 - June 2022

- Directed and hosted **3** social and team-building events to a group of **50+ students**
- Organised scheduling, budgeting and advertising for **2 school-wide events** of over **2000+ students**
- Fostered and mentored incoming class of students by having weekly check-ins over a period of **5 months**

Projects

Sudoku Solver

Python

February 2024

- Developed a sleek and interactive **Graphical User Interface** for a Sudoku solver application using PyGame modules for graphics, input, and event handling
- Implemented an **efficient** and **optimized** solving **algorithm** that utilizes **backtracking** to solve Sudoku puzzles of varying difficulties

Fractal Visualizer

JavaScript, Java, CSS, HTML

May 2023 - June 2023

- Developed a **full-stack** web application for a client at the University of Ottawa that presents a visual representation of mathematical equations as fractals, allowing it to be represented as a interactable and visual pattern through various **algorithms**
- Utilised a **server-side API** for data retrieval and processing along with **React.js** and a **CSS** viewport to create an interactive frontend interface allowing users to render points and fractal representations using a user-inputted parameter
- Collaborated in a partnership utilising project planning, **SDLC** principles and **agile methodologies** to organise, schedule, and track planning, development, and team meetings over a period of 2 months

Wordle Recreation

Java

May 2023 - June 2023

- Led a team to recreate the popular word game as a **full-stack** application that allows users to play as many times as they would like with a randomly selected word during each instance
- Utilised **Java Swing package** and **Abstract Window Toolkit API** to develop a front-end interface