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**About Me**

I'm a driven Computer Systems student at the University of Limerick with a passion for software development and AI. I excel at collaborating with teams to tackle complex challenges and bring projects to life. As a quick learner with practical experience in both programming and hardware, I’m always eager to expand my knowledge and skills in real-world applications.

**Education**

**Bachelor of Science in Computer Systems**  
University of Limerick, Expected Graduation: 2026

* Received letters from the university president for exceptional performance.

**Experience**

**Intern**  
*8-month internship, ending January 2024 at Abbey Capital*

* Gained hands-on experience in software development, contributing to various projects and collaborating with cross-functional teams. Developed problem-solving and coding skills in a fast-paced environment.

**Office Assistant**  
*Summer Positions*

* Provided administrative support, including managing schedules, organizing files, and assisting with data entry.
* Collaborated with team members to streamline office processes, improving efficiency and reducing turnaround times for various tasks.
* Assisted in implementing solutions to enhance communication and workflow within the office.

**Projects**

**U.S. Politician Data Scraper**

* **Developed a system that scrapes and analyses U.S. politicians' financial data to predict trends.**
* **Utilized Python and web scraping techniques with Pandas and NumPy for data manipulation.**
* **Integrated statistical analysis to draw insights from trading patterns.**

**Network Programming**

* **Set up a home server to store files accessible across multiple devices and networks.**
* **Worked with Raspberry Pi, expanding networking capabilities to include secure access across different networks.**
* **Implemented socket package to facilitate data exchange between the server and client applications.**

**Game Design**

* **Designed and developed logic-based games, including word search and Sudoku, using Python.**
* **Created a functional tic-tac-toe game, focusing on user experience and AI-driven opponents.**
* **Programmed game controls and interactions using GPIO pins on Raspberry Pi for physical input devices.**

**Booking System Client-Server Application**

* **Description: Developed a client-server application to handle a booking system, enabling efficient management of reservations.**
* **Features:**
  + **Multithreading: Implemented multithreading to allow the system to handle multiple booking requests simultaneously, enhancing performance and user experience.**
  + **Graphical User Interface (GUI): Designed and integrated a user-friendly GUI to facilitate easy interaction with the booking system.**
  + **Technologies Used: Java for backend development, JavaFx for GUI, and socket programming for client-server communication.**
  + **Outcome: Successfully created a robust booking system that can manage concurrent users and provide a seamless booking experience.**

**yfinance Stock Analyzer**

* **Designed a stock analysis tool that utilizes the yfinance API to gather and analyze stock data based on trading volumes, providing insights into potential investment opportunities.**

**Technical Skills**

* **Programming Languages:** Python, Java, C, C++, SQL
* **Web Development:** Basic understanding of CSS, JavaScript, HTML
* **API Development:** Familiarity with using APIs, including the yfinance package
* **Data Analysis:** Experience with data analysis libraries like Pandas and NumPy in Python
* **Networking:** Developed a personal server for file management, accessible across devices, and researched expansion for cross-network functionality
* **Electronics:** High efficiency with Raspberry Pi, including GPIO programming for hardware control

**Soft Skills**

* Strong teamwork skills, consistently achieving positive results in collaborative projects each semester
* Effective communication skills, both written and verbal, facilitating clear interactions within teams
* Excellent problem-solving abilities, demonstrating analytical thinking and adaptability
* Driven to learn and grow in the fields of software development and AI

**Interests**

* Engaged in an active lifestyle, participating in sports and fitness activities to maintain physical well-being.
* Passionate about technology and innovation, with a focus on software and AI development.
* Enjoy exploring new programming languages and frameworks to broaden technical skills.