

ALEXANDRE E. CERULLO

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EDUCATION

University of Illinois at Urbana-Champaign
Bachelor of Science in Computer Engineering

Expected May 2027
GPA: 3.5/4.0

Related Coursework:

Data Structures Computer Systems & Programming Discrete Structures Lin Alg & Comp. Applications

TECHNICAL SKILLS

Programming Languages: Python, Java, C, C++, LC-3, SQL

Frameworks/Tools: Git, NumPy, Linux, dotenv, os, OpenAI API, Pursuing AWS ML

Spoken Languages: English, Russian

WORK EXPERIENCE

Aroona Solutions Group, DevOps Engineer Intern

June 2024 – September 2024

- Led the development of a file scraper to extract parts and specifications from Oil & Gas Equipment Quotations
- Designed and implemented a user interface allowing for real-time amendments and markups of purchase prices
- Built a comprehensive invoicing software tailored to streamline order processing and increase efficiency for the company
- Enabled the creation of complete, customer-ready invoices by integrating scraped data with user inputs

Window Wizards, Sales Team Lead

May 2022 – Aug 2023

- Led a team of door-to-door sales representatives, driving revenue growth and surpassing sales targets
- Optimized team routes and schedules, maximizing productivity and coverage. Implemented incentive programs and led strategy meetings to drive sales performance and align with company goals
- Managed daily operations, including mentoring and training, performance evaluations, and conflict resolution, ensuring a high-performing and motivated team
- Analyzed sales data to identify trends, refine strategies, and implement best practices, resulting in a consistent increase in customer acquisition and retention

PROJECT HIGHLIGHTS

NovelGPT (Python)

July 2024 – September 2024

- Developed a Python application with OpenAI's GPT API, capable of bypassing GPT token limit and generating 100k+ word novels
- Enhanced user-AI interactions for precise, contextually relevant content
- Optimized content generation and file management, reducing time complexity for faster execution
- Utilized dotenv for environment management and Python's os module for streamlined content processing

Sign Recognition and Alert System (Python, OpenCV)

June 2024 – September 2024

- Developed a real-time sign recognition and alert system using OpenCV and a public dataset of U.S. DMV road signs, enhancing safety in older vehicles
- Implemented computer vision techniques to detect and classify signs in diverse weather and lighting conditions
- Optimized the software for deployment on vehicle dash cams with minimal processing delay

EXTRACURRICULAR ACTIVITIES & LEADERSHIP

CSBC Business Competition, Co-Founder

September 2021 - March 2023

- Co-founded and organized a business competition involving ten private schools across Toronto
- Led efforts that resulted in raising over \$2,000 for the charity organization Operation Smile
- Achieved highest student turnout among all schools by 25% through targeted marketing and incentives