Nicholas Tansino

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EDUCATION

University of Rhode Island - Kingston, RI May 2021
Bachelor of Arts in Computer Science

PROFESSIONAL EXPERIENCE

Computer and Information Systems Manager
American Ecotech/Ambilabs - Warren, RI January 2022 - July 2022

- Researching and documenting requirements for CMMC certification.
- Managing and servicing company IT assets as needed.
- Working with leadership and consultants to manage the CRM system.
- Creating software solutions to automate routine tasks that increase efficiencies for the company and customers.

Environmental Systems Technician
American Ecotech/Ambilabs - Warren, RI June 2021 - January 2022

- Onboarded to full-time after summer internship following graduation.
- Serviced and repaired gas and particulate analyzers for customers.
- Assisted in building custom air monitoring enclosures.
- Creating operation manuals and other relevant documentation to custom builds.

SKILLS

Programming Languages and Tools: C/C++, Python, Java, SQL, HTML, CSS, JavaScript, Linux, Git, and Bash
Software: Adobe Creative Suite Certified and proficient with Microsoft Word, Excel, and PowerPoint

RELEVANT COURSEWORK

Programming Language Implementation Fall 2020

- Studied language grammars, lexical analysis, and parsing theory to understand and implement low/high-level languages
- Applied previous concepts to create interpreters, translators, and virtual machines for various small languages

Operating Systems and Networks Fall 2020

- Surveyed OS concepts regarding process/memory management, scheduling, protection, security, and performance
- Utilized hardware/software interaction to enhance processing performance and efficiency

Software Development Spring 2020

- Utilized Agile methods and techniques to work effectively and develop software efficiently
- Collaborated with others in an environment that enforced strict deadlines

Networking Fall 2019

- Investigated topics such as network layering standards, queuing theory, and multiple access channels

Data Structures and Algorithms Summer 2019

- Explored theoretical and implementation aspects of data structures and algorithms used on modern computers

Calculus II Summer 2019

- Researched and further expanded upon concepts regarding differentiation, integration, series, and polar coordinates
- Applied previous concepts to advanced physics problems, as well as problems on a three-dimensional plane

Object-Oriented Programming Spring 2018

- Examined the complex computational problem-solving techniques using the C/C++ language

PROJECTS

Alexa Research Project (https://github.com/ntansino/alexa_research) January 2021 – May 2021

- Implementing Alexa skill that can teach users with intellectual disabilities to report instances of abuse
- Frontend uses basic concepts of computational linguistics in order to recognize and evaluate user utterances
- Backend uses Python OOP and JSON scripting to initiate and continue dialogue between Alexa and user
- Alexa's machine learning capabilities are utilized in order to recognize any unknown user utterances

UwU++ Language Implementation (https://github.com/ntansino/UwUpp_python) December 2020 - January 2021

- Implemented UwU++ (an esoteric Haskell language) as well as an interpreter for the language in Python
- Created additional features that further enhance the flexibility of the original implementation
- Implementation includes an interpreter for the language (complete with error messages)

Eye Tracker PIN Entry Experiment (https://github.com/ntansino/EyeGazeTrackerPINEntry) September 2020 - January 2021

- Project utilized high-level programming languages to create and analyze datasets based on experimental data
- Research aimed to develop alternative technological accessibility solutions for those with physical impairments
- Experiment included a survey site for participants, as well as backend code to interpret experimental data