Justin Cote

State College, PA, 16801

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EDUCATION

The Pennsylvania State University
State College, PA
College of Engineering
Expected Graduation: May 2024
Bachelor of Science in Computer Science
Dean's List
Minor in Entrepreneurship and Innovation in Engineering
GPA : 3.2
Activities & Clubs:
Ski Club

WORK EXPERIENCE

Multi-Dimensional Integration Advantage
Allentown, PA
Software Controls Engineer (Intern)
May 2022 – Dec. 2022

- Analyzed project requirements and performed technical calculations supporting design solutions
- Organized and created spreadsheets to track clients' systems passwords, IP addresses, setpoints, alarms and input
- Worked independently to ensure that historical data for client was preserved during system shutdown / error
- Wrote scripts in Java and Python to control PLC outputs (motors, latches, etc.) from PLC input devices (sensors)
- Built a custom Network Time Protocol over a wireless network to sync servers and devices too

State Farm Insurance
Fogelsville, PA
Summer Intern (Paid)
June 2019 – Sept. 2019

- Wrote procedures, reports, and technical documents in coherent terminology
- Proposed use of SQL for faster and more complex query parameters
- Utilized Excel equations to manipulate client data to certain types

iCode Edu
Remote Position
Part-Time Position
June 2023 – Aug. 2023

- Tutored students from 4th-11th grade in computer science related courses
- Specifically CryptoCurrency, Web Development, Intro To Python

RELEVANT PROJECTS AND RESEARCH

Research Assistant – Penn State, University Park
March 2023-Dec 2023

- Researching AI blending with Programming Languages
- Focused on using file information to predict types of variables/return in a dynamic program setting
- Utilizing Python libraries to web scrape open source libraries to create dataset

Sentimental Analysis Project (Capstone Project 1) - Penn State, University Park
2023 Fall Semester

- Used a dataset found on Kaggle that provides the comment and the sentimental tag.
- Utilized Python, Tensorflow & Keras libraries, to model Convolution and Recurrent Nueral Networks

NFL Fanshop Website (Capstone Project 2) - Penn State, University Park
2023 Fall Semester

- Full Stack development utilizing Reactjs framework and Nodejs (backend).
- Hosted UI using Netlify and set up backend on localhost. Used MySQL to host data.

HeardTHT Mobile App (Personal Pursuit) -
Summer 2022-Present

- Hosts users playlists in one application for creating, editing, transporting, and sharing
- Allows users to share and collaborate on playlists across streaming platforms
- Utilizes open-source APIs and Firebase Firestore
- Currently building in React-Native-Cli and Nodejs

Dynamic Memory Allocation (Capstone Project 3)- Penn State, University Park
2023 Fall Semester

- CMPSC-473 project included writing custom (C Library) methods for Initialization, Malloc, Free, Realloc
- Optimized the throughput and memory to $O(n)$ on a 64 bit, 16 byte aligned machine.

Skills

Python (Programming Language)	Flutter (Programming Language)	Systems Programming (Unix)
JavaScript (Programming Language)	C (Programming Language)	Discrete Math
Node.js (Programming Language)	React.js (Programming Language)	Full Stack Development
	Data Structures and Algorithms	