Nickolas Phen

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Education:

- **Bachelor of Science** in Computer Science *May 2022*
  - University of Florida, Gainesville, FL
  - Minor: Electrical Engineering

Relevant course work:

- Data Structures and Algorithms
- Information and Database Systems
- Introduction to Software Engineering
- Introduction to Computer Organization
- Programming Fundamentals 1 (Java focused)
- Programming Fundamentals 2 (C++ focused)
- Operating System
- A.I for Computer Games
- Computer Network Fundamentals
- Programming Language Concepts
- Performant Programming in Python

Work Experience:

- **Administrator Assistant,** Baker Hill Industries, *Inc.* *July, August 2019*
  Coral Springs, FL
  - Scanned paper records into digital versions to upload to the company's cloud servers.
  - Organized files pertaining to projects and jobs done by the company.

Activities:

- **Knights Hack 2019** *March 2019*
  University of Central Florida
  - Formed teams to cooperate towards creating a simple side scroller game within 72 hours.
  - Granted opportunities to explore different aspect, fields, and companies pertaining to computer science.
- **IBM Master the Mainframe Competition** *September-October 2014, 2015, 2016*
  - Competition that allowed for participants to experience and familiarize themselves with using IBM's mainframe technology used in various enterprises.

Skills:

- **Coding Languages:**
  - Proficient: Java, Python, C++, SQL.
  - Familiar: JavaScript, MATLAB, React.
- **CAD/CAM Software**:
  - Proficient: AutoCAD, Mastercam, Solid works.
- **Other:**
  - Familiar: HTML, GitHub, CSS, VHDL, Assembly code

Projects:

- **Heavenly Writing**: Backend Developer

  A web app created in a group for a client over the duration of taking Introduction to Software Engineering. The webapp is a astrology calculator and tracker that would calculate things like a user's zodiac sign, horoscope, and other aspects of their astrological data based on the user's birthday, time of birth, and location born. It would also be used in the future to implement things like a tracker and suggestions of what to do on certain days based on how one is feeling and what their zodiac sign is among other factors. (Currently private on GitHub in case of security issues)
  - Helped work on the NoSQL database where the data for users were stored in the JSON formatted files.
  - Implemented an API that was used to find a person's zodiac sign, ascendent sign, UTC time of birth, and position of the sun based on the user's inputted birthday, birth time, and location of birth.

- **Trail Tracker** Developer

  A group web app created over the duration of Performant Programming in Python. The app was designed as a form of a basic journal used to locally store data on a device for various aspects of a hiker enthusiast's journey such as pictures, trail descriptions, elevation changes, distance walked, etc. The home page used a Google Maps API in order to display where each hike took place around the globe.

  - Helped work on and design pages for displaying detailed information about individual hikes.
  - Helped implementing the basic frame for displaying images stored in the database.

- **RoboCode** Developer

  Used the basic RoboCode libraries and some predeveloped algorithms to create an AI for my tank to battle in a team based RoboCode tournament for my A.I for Computer Games class. I implemented code I modified from the base ideas found online for algorithms like predictive shooting and strafing to create my own original bot.

- **Portfolio Website** Developer

  A basic portfolio website created on my own to give basic information about myself and my skills that could be used in the workplace. Also used to display previous and future projects I helped contribute towards creating. Uses the JavaScript based library, React, to build the webpage and uses Netlify to host my website directly from my GitHub repository.
  - **URL**: https://nickolasphen.netlify.app/