# Peri Hassanzadeh

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*Computer Engineering major seeking full-time position upon graduation*

## EDUCATION

**UNIVERSITY OF PITTSBURGH**                                                                              **Pittsburgh, PA**
*Swanson School of Engineering*                                                                            *December 2022*

*Major: Computer Engineering   Minor: Persian / Farsi*                                             *Current GPA: 3.43*

| RELEVANT COURSEWORK | COMPUTER SKILLS | |
|---|---|---|
| • Data Structures and Algorithms | • C++ | • Python |
| • High Performance Computing | • C | • Linux |
| • Embedded Processors and Interfacing | • Assembly | • Microsoft Office |
| • Computer Organization and Architecure | • Java | • Git |

## PROJECTS

**BOP-IT SPIN OFF**                                                                                               Spring 2022

*Junior Design*
- Designed a **PCB** and 3D printed enclosure to create a functional game similar to Bop-It utilizing **C++** and Arduino to customize the various controls while working with a team of engineering students
- Used rapid prototyping techniques through the use of continuous testing via simulation software and breadboarding

**HOTCIV TURN-BASED STRATEGY GAME**                                                                Spring 2021

*Software Construction and Evolution*
- Developed a turn-based strategy game using **Java**, compositional design, test-driven development and design patterns while following specific coding standards and guidelines
- Thoroughly tested code base by analyzing results from Jacoco code coverage and Gradle build automation

**TRAIN CONTROL SYSTEM**                                                                                       Fall 2020

*Systems and Project Engineering*
- Developed a simulation of Pittsburgh's North Shore Extension using **C++** by communicating with a group of students of various technical backgrounds
- Utilized **GitHub** as a project management tool to manage codebase and defects
- Created a user interface module to simulate a train dispatcher's view of the entire system including functionality for tracking train location, dispatching to certain position on track and running a schedule

## WORK EXPERIENCE

**PRUDENTIAL FINANCIAL**                                                                                      **Newark, NJ**

*Software Engineering Intern*                                                                          *June 2022-Present*
- Developed **Python** scripts to improve and automate processes in an existing application holding important financial information by parsing and organizing **SQL** code for further manipulation

**UNIVERSITY OF PITTSBURGH**                                                                          **Pittsburgh, PA**

*Undergraduate Teaching Assistant*                                                                *Spring 2022-Present*
- ECE 302 Data Structures and Algorithms and ECE202 Embedded Processors

*SHREC Undergraduate Student Researcher*                                                      *Spring 2022*
- Investigated the performance metric improvements of various natural language processing algorithms on NVIDIA embedded GPUs intended for use in space environments

**ANSYS INC.**                                                                                                  **Canonsburg, PA**

*Software Development Intern*                                                                        *Spring and Fall 2021*
- Developed both front and backend for multiple internal tools using **Python** to automatically download and install ANSYS products from JFrog Artifactory utilizing various API calls
- Upgraded and implemented additional features to a package reporting tool for the Release Management Unit to provide real time updates
- Developed a big data application used to parse compressed data to find specified strings amongst GB of data which reduced search time from hours to seconds
- Utilized **Selenium** to scrape webpage code to parse important information for testing and analysis
- Cross-platform development (Python, Shell, Batch) using Linux and Windows