Shmuel Weinfeld

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Education

Florida International University (FIU) *Graduation: May 2020*
B.S. Electrical Engineering - Cum Laude *GPA: 3.56*
Concentrations: Software Systems, Machine Learning, Bio-Medical Technology
Skills: C/C++, Java, Python, Object Oriented Programming, Data Structures & Algorithms

Experience

United States Patent & Trademark Office (Remote) *October 2020 - Present*
Patent Examiner - Artificial Intelligence (AI) Technology

- Examine patent applications related to artificial intelligence, and machine learning
- Search prior art to ensure that inventions are new and unique
- Write office actions communicating findings on patentability to inventors and patent practitioners
- Interview patent attorneys/agents to gain a clear understanding of claim amendments and scope

Boatrax (Miami, Fl) *May 2020*
Software Engineer Intern

- Worked both independently and along with the head of engineering of a 4 man start-up
- Wrote over 1,000 lines of C code for an electronic power management system
- Thoroughly checked and tested the code for bugs and logical errors

FIU Senior Design Capstone Project (Miami, FL) *August 2019 - April 2020*
Software Engineer

- Collaborated with 4 fellow seniors and a faculty advisor to develop a smart bandage system
- Programmed a microcontroller using C++ to control multiple sensors and communicate wirelessly
- Researched optimal designs that complied with all electronic hardware specifications
- Wrote design proposals and presented monthly design updates to fellow senior students

FIU Student Athlete Academic Center (SAAC) *August 2019 - December 2019*
Student Tutor

- Facilitated the development of student-athletes and enabled them to be academic champions
- Discussed learning, test-taking, and study strategies and assisted with assignments and questions
- Tutored courses in math, physics, and statistics
- Attended and participated in SAAC meetings and training sessions

Projects/Interests

Credit Approval Data Analytics *February 2020*

- Investigated the UCI Credit Approval data set and created a model to predict credit approval
- Used Python's numpy, pandas, and matplotlib to clean the data and to create visualizations
- Implemented and compared the accuracy of logistic regression, SVM, and random forests
- Achieved a 90% accuracy score using the random forests algorithm

Hobbies: Drums, basketball, football, swimming. Travel, lived abroad for 6 years