Nicholas Fox

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Gainesville, FL 32601   Naples, FL 34120

Education

Bachelor of Science in Computer Science   *Summer 2019-present*

University of Florida, Gainesville, FL, *Herbert Wertheim College of Engineering, Joint MS/BS*
Minor in Electrical Engineering, and Business Administration, *Warrington College of Business*
GPA 3.57/4.0

Coursework Undergrad / *Graduate*

Malware Reverse Engineering, *Software Engineering*, Software Security, Numerical Analysis	*Spring 2022*
Intro Machine Learning, Computer Network Fundamentals, Microprocessor Applications	*Fall 2021*
Database Systems I, Operating Systems, Engineer Statistics / Digital logic	*Spring 2021 / Summer 2021*
Data Structures/Algorithms, Computer Organization, Principles of Management	*Fall 2020*
Discrete Structures, Principles of Marketing / Computational Linear Algebra	*Spring 2020 / Summer 2020*
Programming Fundamentals 2, Calculus 3	*Fall 2019*

Experience

course projects

Progressive Rock Machine Learning, Python — Utilized Keras, PyTorch, and TensorFLow   *Fall 2021*
● Trained a DNN, CNN, and LSTM to classify songs as progressive rock or not progessive rock
P2P Network, Java — Peer to peer file sharing program   *Fall 2021*
Nutshell, C/C++ — Linux based simple shell. Utilized Flex and Bison for command parsing   *Spring 2021*
● Handles, commands, pipes, I/O redirection, aliasing, and environment variables
Page Rank Algorithm, Dijakstra's Algorithm, AVL Tree   *Fall 2020*
Templated Linked List, Array Based Stack and Queue, Minesweeper   *Fall 2019*

Python Hackathon Project

Retalica — Web Application. Reddit stock scalper (wandbrandon.github.io) *Team Project* *Spring 2021*
About project (https://bit.ly/2NWOCYu) *Devpost*
● Developed backend functionality within a team using Django, PRAW, and Google Cloud

Java Personal Project

Snake Arcade — Android Mobile APP (http://bit.ly/2MjME3w)   *Fall 2018*
● Self-taught launch process, from beta testing to full rollout

Swim Instructor Naples Swim School

● Taught ages 2 to 65 and managed 60 kids as a camp counselor   *Summer 2021*

Involvement

Student Organizations

Machine Intelligence Laboratory (MIL) *Member*   *Fall 2021-Present*
● Assisted building autonomous submarine and boat
Association Software Engineers (ACE) *Mentor*   *Fall 2020-Present*
● Mentoring of pupils and goal setting
Swamp Hacks 36 hour hackathon *Contestant*   *Spring 2021*
● Collaborated within a team to seamlessly develop a full web app
University of Florida Men's Swim and Dive *D1 Athlete*   *Summer 2019-Summer 2021*
● Dedication, teamwork, and time management (*swim*: 18-28 hours/week *lift*: 6-8 hours/week)
● Completed at an elite level in a high stress environment

Skills

Languages, programming *Novice*

C, C++, Java, Python, GO, Yacc, Flex, *JS, R, HTML, ARMv8, x86, x64, SQL*

Frameworks and APIs *Novice*

Angular, *Django, PRAW, YahooFinance, Tweepy, Flutter, Google Cloud, Firebase,*

Software *Novice*

Excel, GitHub, Ghidra, VS Code, Linux, *Android Studio, Solidworks, Blender, Unity*

Honors/Awards

Swamp Hacks 2nd Place Best Implementation of Google Cloud API   *Spring 2021*