

Nicholas Fox

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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 progressive 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, Dijkstra'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/2MiME3w>) 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
SEC Champions Men's Swim and Dive & SEC Academic Honor Roll 2019-2021