Isaiah Nields

Software Engineer
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Experience		
	Software Engineer	Jan 2018 - Present
	iMobile3, Point of Sale Team	

- Designed, developed, and published 5 applications to automate business and competitive analysis tasks, which garnered over 600 downloads
- Collected and analyzed data about 22 Android and iOS point of sale applications, while constantly monitoring for new features and updates
- Researched UI/UX designs and made recommendations to Android development team

Computer Engineer — May 2016 - May 2017

University of Florida, Coleman Lab

- Designed and developed a low-cost operant chamber for behavioral experiments conducted in the Coleman Neuroscience Lab
- Programmed the operant chamber trial flows with Python 2.7 and created a control panel GUI with Tkinter
- Assisted in constructing the operant chamber circuitry on an Arduino

Education		
	University of Florida	Aug 2017 - Jun 2021
	Bachelor of Science in Computer Science	
	GPA: 3.96 / 4.00	

Projects

CSV to SQLite

Electron Apps, 520 downloads

- Designed and developed an app to convert CSV files to SQLite databases using Electron, Node, and Vue

App allows a user to quickly set column type affinities and a primary key for each table

- Converts CSV files over 50% faster than a standard command line method

Search Queue

Chrome Store, 48 users

- Spearheaded development of Chrome extension that allows a user to queue up multiple searches and quickly make them
- Reduced time to complete competitive matrices at iMobile3 and TIAA Bank by over 25%

Business Classifier

GitHub, iMobile3

- Saw use for, designed, and developed Python 3.6 app that classifies businesses at iMobile3
- Consolidates business category data from Facebook and Yelp APIs using Requests Python library
- Scrapes data from Google Maps with Selenium using XPath
- Reduced time required to classify iMobile3's 10k+ merchants by over 90%, saving many hours for team

Web Loader

GitHub, iMobile3

- Thought up and created a script to download entire websites using PhantomJS
- Continuously monitored changes made to iMobile3's competitor's websites with script running on Raspberry Pi
- Conducted text analytics on downloaded content using Python and Pandas

Skills

Languages: Experienced: Python, JavaScript, HTML/CSS, SQL; Familiar: Java, C++, MATLAB, R
Frameworks / Libraries: Vue.js, Node.js, Electron.js, PhantomJS, Selenium, Pandas, Tkinter

Awards

2nd Place Award, State Science & Engineering Fair of Florida
Edward McCarthy Sciences Award, Episcopal School of Jacksonville