



WILL SIMS

SOFTWARE DEVELOPER

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EXPERIENCE

Apprentice Software Developer

Nashville Software School, Nashville, TN

Six month full-time, immersive boot-camp in full-stack software development. Worked with Javascript and the Angular framework, as well as Python, the Django web framework, and the Django REST framework. Designed and developed many individual and group apps. Developed test-driven applications, managed source and version control using Git/GitHub, designed entity relationship diagrams (ERDs) that led to the creation of SQL databases, and designed a truly RESTful API using Django's REST framework.

E-Commerce Data Analyst

Executive Advertising, Hendersonville, TN

My role took many different forms: from data engineer to database administrator, I work on almost every aspect of our e-commerce website aside from the front-end development (though I have managed projects and teams that work on our front-end). My primary role was to manage product and supplier data. I aided in the design and structure of our database. I was responsible for the transition of our customer and product data from an outsourced, 3rd party back-end to our new, in-house MySQL database. Aside from managing, collecting, and manipulating data, I also built image manipulation software. These image manipulation scripts range from modules that let our admin users approve, change, or deny product images and information that was either scraped or collected via an API by myself.

EDUCATION

2012-2016

University of Tennessee, Knoxville

Bachelors Degree: Business Administration: Management

Collateral Degree: Information Management

PROJECTS

MyGrades

MyGrades was my first shot at building a full-stack app. It is an application for students to keep track of, and make calculations on, the grades they receive in their college or high school courses. I built this program because when I would study for tests in college, I always found myself manually calculating grades that I needed to receive in order to get an A or B in the course. This application was built with the AngularJS framework for the front end, and I built a RESTful API with the Python & the Django Framework for the back end.

Back End API Repo: <https://github.com/willsims14/MyGrades-BackEnd>

Front End Repo: <https://github.com/willsims14/MyGrades-FrontEnd>

Djangazon

I worked on this project in a team of 4 people, we followed the SCRUM Sprint methodology. The Djangazon project is an e-commerce web application, similar to Amazon, that was built with the Django framework for learning purposes only. Users can buy and sell products, like & dislike products, give ratings to purchased products, and recommend products to friends. My team and I built a recommendation engine that recommends products to users, based on the Jaccard Index's similarity coefficient (relative to other user's like/dislike patterns).

GitHub Repo:

<https://github.com/solanum-tuberosums/djangazon>

Private Projects

I have a few private projects that I cannot make public, but I would love to show them off in person. These private projects' topics are written in Python and range from image manipulation, to data collection and storage.

TECHNOLOGIES / SKILLS

BACK END

Relational Database Development

Entity Relationship Diagram (ERD) Design

SQL

Restful API Development

Web Scraping

Django Web Framework

Django REST Framework

SOAP Protocol

FRONT END

HTML, CSS, Javascript

jQuery

AngularJS

Bootstrap / Materialize

OTHER

Python

Linux / Unix-based operating systems

AWS

Version & Source Control

Project Management

Unit Testing

FAMILIAR WITH

Java

.NET Framework

PHP

Node.js