Evan **Fannin**

SOFTWARE ENGINEER

Nashville, TN

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Projects

Denny BnB - (Check It Out!)

A BOOKING WEBSITE FOR REPEAT AIRBNB GUESTS *September 2021 - December 2021*

- Decoupled single page React application with RESTful Django backend
- Dockerized using Docker Compose and deployed on AWS EC2
- React code has near full test coverage
- Backend user authentication and protected routes with JWT tokens
- Utilizes React Context to track authentication state and redirect with React Router

Experience

The General, Product Management *Nashville, TN*

PRODUCT ANALYST *May 2021 - Present*

- Wrote Python scripts using the library Selenium to automatically search competitor websites and scrape data.
- Allows product managers to collect the entirety of competitor's data, whereas before they could only gather a small sample; Also shortens time worked from a few days to a few minutes.
- Packaged the scripts into a Python desktop app with a GUI using Tkinter for further ease of use by product managers.
- Automated data collection, merging, and preparation from multiple Excel sources into graphical reports.
- Built a data pipeline from company databases to populate a Tableau report using SQL and Alteryx.

The General, Data Science *Nashville, Tennessee*

MACHINE LEARNING ENGINEER INTERN *May 2020 - August 2020*

- Trained a PyTorch Resnet model using transfer learning on company claims images to filter for images of entire cars.
- This was a first layer for future models that would add computer vision to an existing system of NLP and linear models that predicted if a wrecked car was a total loss.
- Wrapped the pickled model in a FastAPI RESTful API with type validation using Pydantic; served with Gunicorn.
- Dockerized and deployed the service to AWS EC2.
- Wrote technical documentation and presented the end results to senior management in a company-wide showcase.

Skills

Programming Languages	Javascript, Python, Java
Web Frameworks	React, Django, Django Rest Framework, FastAPI
Testing Libraries	Jest, Enzyme, Sinon
Deployment	Docker Compose, Nginx, Gunicorn, AWS EC2, Git
Human Languages	English, Mandarin Chinese

Education

Belmont University *Nashville, Tennessee*

BACHELOR'S IN MATHEMATICS WITH COMPUTER SCIENCE MINOR - 3.67 GPA *December 2020*

- Notable courses: Artificial Intelligence, Algorithms and Data Structures, Multivariable Calculus, Linear Algebra, Discrete Mathematics, Graph Theory, Differential Equations, and Abstract Algebra