Danni Shi

J 585-520-5002 ■ dannishi.me@gmail.com 🎓 dannishi.me 👩 github.com/DanniBot

Education

University of Rochester

Sep. 2021 - Dec. 2022

M.S. in Computer Science (GPA: 3.9/4.0)

Rochester, NY

• Relevant courses: Collaborative Programming & Software Design, Human Computer Interaction, Computer Networks

Central South University

Sep. 2016 - Jun. 2020

B.S. in Intelligence Science and Technology (with Honors)

Changsha, China

Technical Skills

Languages: Python, JavaScript, Rust, C, Haskell, Shell, SQL, HTML/CSS

Frameworks & Libraries: Django, Flask, jQuery, Jinja, Bootstrap, NumPy, Pandas, PyTorch, scikit-learn

Database & Other: MySQL, Postgres, MongoDB, Git, Heroku, Linode, AWS, Postman

Projects

Multi-vendor Restaurant Marketplace Website | GitHub link

August 2022

- Developed a full-stack online food-ordering system with **Django** and **Postgres** for the backend, **HTML/CSS**, **Bootstrap**, and **JavaScript** for the frontend, and deployed it on **Linode** with **gunicorn** and **nginx**
- Implemented RESTful APIs with Python to support CRUD operations so that vendors can manage their menus
- Utilized GeoDjango and Google Map APIs to support showing nearby restaurants and location-based search
- Constructed jQuery AJAX widgets for features such as the shopping cart to render data in a more user-friendly way
- Built email verification for account activation and password reset, and optimized checkout process with email notification by using django.core.mail module

Online Course Registration System | GitHub link

July 2022

- Developed a full-stack web-based course registration system using Flask framework, and deployed it on Heroku
- Built a NoSQL cloud database MongoDB Atlas to manage student and course information
- Created RESTful APIs with Flask-RESTPlus to support CRUD operations, and tested the APIs with Postman

Command-Line To-Do App | GitHub link

June 2022

- Built command-line interfaces with **Typer CLI** in **Python** to take and process commands, options, and arguments
- Utilized namedtuple and dictionaries to handle the to-do data, and JSON files to manage persistent data storage
- Applied test-driven development by writing unit tests for every feature using **pytest** and Typer's **CliRunner**

Distributed Version Control System in Rust

Oct. 2021 - Dec. 2021

- Designed and developed a fully functional DVCS in group using **Rust** and scored higher than 90% students in class
- · Handled writing and reading files operations by serializing and deserializing JSON data with Rust's SerDe framework
- Implemented interfaces for clone, push, and pull to transfer files by integrating Linux rsync commands into Rust code
- Created all the unit tests in Rust and integration tests in shell to troubleshoot the system and enhance error handling

Experience

Product Manager Intern

Mar. 2021 - Jul. 2021

Shanghai, China

NIO, Inc. digital cockpit team

- Defined detailed product requirements for 6 core features for the software system of the NIO ET7 model
- Collaborated with engineers and QA to understand constraints, identify solutions, and ship features regularly
- Worked closely with UI/UX to set the direction for the HMI design of the multi-display digital cockpit driving experience

Research Assistant | Paper

Jul. 2019 - Jun. 2020

Intelligent Learning and Optimization Laboratory, CSU

Changsha, China

- Cleaned and preprocessed 66,706 entries of raw data collected from patients' IVF medical examination results using Python
- Assisted in building 6 classification models with **scikit-learn** to predict early pregnancy loss after IVF-ET. The one predicted with the highest accuracy was Random Forest, of which the recall ratio and F1 could reach 97%