

# Xian Jian Zhang

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## Education

University of Florida

Gainesville, FL | July 2021 – December 2023

- Currently attending, Bachelor's in Computer Science and minoring in Statistics

Relevant courses: Introduction to C++, Introduction to Java, Advanced programming fundamentals (focuses on Java and C++), Programming in R, Databases, Data structures and algorithm, Computer organization (hardware and logic)

## Skills

- Programming languages/Skills: C++, Python, Java, HTML, CSS, Javascript, MySQL, Heroku, PostgreSQL
- Technology: Github, Docker, Django, Pandas, Numpy
- Tools: Clion, VSCode, Pycharm

## Projects and experience

Traveling Mechanic Project (Part of 2022 Swampacks Project):

GitHub link: <https://github.com/XianJianZhang/TravelingMechanic>

- Implemented basic backend functionality to the website like user registration, password reset, login through Django
- Developed data models and incorporated them into Postgres database on Heroku using Django ORM
- Created basic CRUD functionalities through the use of function-based views and built-in Django class-based views
- Set up web pages in a way which only users of proper authorization can enter through Django decorators and mix-ins.
- Assisted in the implementation of Google maps API
- Configured AWS and S3 bucket for deployment on Heroku

Meme generator program

GitHub link: <https://github.com/XianJianZhang/MemeGenerator>

- Created a command line-based program that takes in text inputs and a picture file to automatically create a meme with the picture and text at the corresponding positions by utilizing the C++ SFML library
- Learned how incorporate the C++ libraries into programs

TGA image file manipulation program

GitHub link: <https://github.com/XianJianZhang/TGAImageFile.git>

- Built a C++ program that implemented basic photoshop blending functions
- Learned how to read in binary files and interact with pointers in C++
- Implemented careful programming conventions to prevent memory leaks