

JOHNNY JIANG

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EXPERIENCE

An Kang Adult Day Care

June 2022 - Present

Software Engineer

New York, NY

- Achieved 90% efficiency gains in insurance claim submissions for 500 patients biweekly, saving the billing department 85 hours per cycle by employing Python Selenium and Pandas for patient data mapping
- Reduced the administration team's workload by 45 hours every month by utilizing Python Xlwings to automate the creation and printing of 500 individualized Excel timesheets
- Enabled self-service food ordering for 200 daily patients by creating a Bootstrap website with Google Forms and Apps Script to dynamically update menu choices, saving the kitchen staff 30 minutes each day
- Reduced tour availability inquiries by 10% with Apps Script triggered by Google Form submissions that cross-reference reservation dates in Sheets and send an automated reply through Twilio SMS

Siemens

May 2021 - August 2021

Software Engineer Intern

Cincinnati, OH

- Retrieved regional population density data of 300k via Socrata API, pre-processed with Pandas, and applied k-means clustering to identify mobile vaccination clinic locations
- Integrated OpenAI API to generate training data of block descriptions containing up to 3 features per sentence
- Leveraged Anaconda's debugger and virtual environment to resolve 2 legacy codebases with outdated libraries

PROJECTS

World of Warcraft Loot Manager

github.com/johnnyj2608/LootCouncil

- Created a Python automation for a data-driven reward system, resulting in 30-minute weekly time savings
- Designed an algorithm to analyze 1,500 records and generate 100 person-to-reward pairs in 35 seconds
- Retrieved evaluation data with GraphQL to query Warcraft Logs API and Pandas to parse online CSV files

Lunar Birthday Reminder

github.com/johnnyj2608/LunarBirthdays

- Developed and published a SwiftUI app that creates recurring notifications for Lunar-based birthdays
- Integrated Google OAuth 2.0 for Google Calendar API authorization, creating 4 events per second
- Utilized Core Data to store UIImages as URLs and implemented Kingfisher for smooth image rendering

Restaurant Point of Sale System

github.com/johnnyj2608/RestaurantPOS

- Developed a Java Swing GUI for self-service food ordering to increase host availability for client assistance
- Implemented MySQL as the back end for lightweight menu queries, handling over 6,000 unique combinations

SKILLS

Languages: Proficient in Python, Swift, and Java. Familiar with SQL, HTML/CSS, Javascript, and C

Frameworks and Libraries: Selenium, Pandas, Xlwings, Tkinter, Django, React, Bootstrap, Firebase

Technologies and Tools: Git, PostgreSQL, MySQL, Docker, Google Cloud Platform

EDUCATION

The Pennsylvania State University

2018 - 2022

Bachelor of Science in Computer Science

State College, PA