

WENXIN ZHANG

• software developer •

ABOUT ME

Software Developer with background in Statistics and Data Analysis. Experienced in Python, R, Django, RestAPI, JavaScript, HTML, CSS, and SQL. Problem-solver with ability to develop and implement solutions to meet business needs in an Agile team environment.

EDUCATION

- 2021 • Momentum Learning
16-week immersive full stack coding bootcamp
- 2016 - 2018 • University of Arizona
Master of Educational Psychology
Quantitative Research Methods and Data Analytics
- 2012 - 2016 • Nanchang Hongkong
University, China Bachelor of Management

CONTACT

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- 📍 Durham, NC

TECHNICAL SKILLS

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|------------|--------------|--------------|--------------|-----------|-----------------------------------|
| • Python | • JSON | • PowerShell | • JavaScript | • Tableau | • Full Stack Software Development |
| • Rest API | • PostgreSQL | • Git/GitHub | • HTML | • SQL | • Agile Development |
| • Django | • SQLite | • Heroku | • CSS | • R | • Remote Software Development |

EXPERIENCE

- **MOMENTUM LEARNING, Software Development Student**
2021 DURHAM, NC
 - Acquired full stack software development experience in Python, Django, Restful API, JavaScript, HTML, and CSS.
 - Developed back-end database using SQLite and PostgreSQL.
 - Built Django projects using Rest framework by collaborating with the Front-end team.
 - Deployed production in Heroku.
- **North Carolina State University, Research Data Analyst**
2018-2019 RALEIGH, NC
 - Guided the improvement process for two artificial intelligence applications developed to assist high school students in learning math and physics by using quantitative research methods for evaluation purposes; created and presented reports.
 - Interpreted and analyzed user data collected from several educational AI applications using R programming.
 - Implemented statistical methods including t-tests, ANOVA, ANCOVA, Post-hoc Comparison, correlation, Linear Regression, IRT (Item Response Theory) and the General Linear Model (GLM).
 - Strengthened client's understanding of our analysis by producing data visualizations (box plots, interaction plots, histograms, line graphs, bar graphs) in R and Excel.
 - Improved usability of big datasets through cleaning and manipulation by implementing advanced Excel functions.

PROJECTS

- **SAVER**
MOMENTUM LEARNING
<https://github.com/savr-Momentum-Team-8-Final-Project/Savr-BE>
SAVR is an app for people to manage their budget and spend during traveling. This 5-member project team utilized React Native on the front-end and Django, REST framework, Djoser and AWS on the back-end. I was in charge of the back-end portion of this app, and led the effort to build the functionality for users to photograph their receipts and then automatically present and store important information using Tesseract. I also designed rule-based OCR models in Python.
- **Questionbox**
MOMENTUM LEARNING
<https://github.com/Momentum-Team-8/team-project-questionbox-sasmothbe>
This application is a question and answer platform, similar to Stack Overflow.
- **Covid-19 Jail / Prison Study Project**
UNIVERSITY OF NORTH CAROLINA CHAPEL-HILL
I collaborated with a UNC research team to research the Covid-19 situation in US jails. We collected data from more than 80 jails across the US and used R and Excel to clean and manipulate it, which increased data accuracy and usability. I developed a Tableau dashboard to identify and visualize the day-to-day increases in COVID cases.