Graham Joss

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Professional Statement

I am a budding technology professional with a willingness to learn new things and a need for intellectual rigor. My training encompasses software development and geographic information systems. I strive to promote clear and open communication to achieve more effective collaboration.

Skills

- Algorithmic thinker with tools like
  - C, Java, Python
- Optimization of code composition
  - Vim Script (mappings, macros, functions)
- Data Visualization through the application of digital cartography
  - Open sourced with GeoPandas, Leaflet, Folium
  - Proprietary with ESRI's ArcGIS suite
- Big Data Cluster computing
  - Map-reduce programming paradigm using AWS
- Technical writing
  - Technical and non-technical explanations of technical work
- Regular Expressions
- Shell Scripting
  - Bash and Zsh

Work Experience

Functional ERP Coordinator at Automated Vehicle Wash Equipment Inc., *April 2024 - Present*
- Apart of the implementation team of a new enterprise resource planning (ERP) system. Designed inventory management processes. Data engineering: wrote SQL statements and used Python's pandas/numpy to meet reporting needs. Where ERP's reporting fell short, I suggested the used of MS Power BI. Recorded manufacturing time studies. Conducting inventory identification and participated in cycle counting.

Data Science Intern at Chicago Metropolitan Data Science Corps (FracTracker Alliance), *July – Sept. 2024*
- Used Python's pandas to clean a median sized spreadsheet of largely unstructured data. Provided insight on how to record structured data in novel situations. Created a data report summing up the exploratory data analysis phase. Wrote a Python multi-threaded API call to minimized network latency while considering rate limiting. Devised scheduled tasks to update datafiles that focuses on efficient updating by only processing new data. Designed user friendly, interactive geographic maps with ArcGIS Online.

Geographical Information Systems Lab Assistant at DePaul University, *September 2023 – November 2023*
- Used ESRI's ArcGIS Pro to transform, analyze and visualize geospatial data. Tutored graduate and undergraduate courses in cartography and statistics.

Teacher Assistant – at DePaul University,

Spatial Data Science class, *September 2022 – November 2022*
- Used Python's open source geographic and data science libraries in Jupyter Notebook for Exploratory Spatial Analysis. Conducted Course tutoring on: reproducible workflows, spatial clustering, geocoding.

Remote Sensing class, *January 2021 – March 2021*
- Used ESRI's ArcMap for Landsat data analysis. Conducted course tutoring on: change detection, spectral and thermal analysis.

Sales Administrator – R.R. Donnelley – Chicago, IL, *August 2015 – November 2019*
- Aided in the sales process through market research. Created new paper fold designs for direct mail campaigns. Strategized customer touch points through channels like digital email or physical direct mail to promote shopping cart conversion or loyalty.

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Education

DePaul University, Chicago, Illinois   *Graduation May 2024*

    Bachelor of Science in Computer Science - Software Development

    Certificate in Geographic Information Systems

Volunteer

Mentor – Mentor Collective   *January - August 2024*

- Mentored junior college students transferring into universities planning to study computer science. Provide guidance on the attitude, work ethic, and practical skills needed to succeed in a competitive academic environment.

Projects

Django (Python) web application – Weather application – Senior year Capstone Project.

    Link to GitHub Repository here.

Text-based terminal Application in Zsh - Web scrape GitHub user's repositories and display to console.

    Link to GitHub Repository here.

Visualizing an educational non-profit's offerings (classes for kids) in comparison with census data.

    Link to ArcGIS Map Journal here.

Portfolio Site in Dart Language using the Flutter Framework

    Link to live site here.