

To Whom It May Concern,

I am a recent DePaul University graduate with a multifaceted background allowing me to wear many hats and always in pursuit of the next hat. With my skills in software development and data analytics, I am seeking a challenging position requiring me to be constantly learning on the job while contributing to the task at hand.

I am motivated by seemingly intractable problems that force me to learn the fundamental concepts. As an independent learner my first choice of material is always for “Learn Linux the Hard Way” instead of “Learn Linux in 2 hours.” I seek understanding and truth derivation over memorization. Although, in a business environment I am aware I may not have the luxury to explore every detail and a deadline for a deliverable would be the priority.

My degree path has uniquely prepared me to contribute to a software development workflow. In the introductory computer science classes I learned string manipulation, which sets the stage for large scale file cleaning. I have experience pulling data with API calls and creating static web scrapers. In my data structure classes I learned about the space-time tradeoff when measuring algorithm performance. This gives me the ability to recognize inefficiencies when creating solutions.

I completed a 20-credit hour certificate in Geographical Information Systems that is separate, but complementary to my computer science degree. I routinely created accurate, timely and aesthetically pleasing information products. I enjoy and see the great power that can come from the process of well thought out data collection and analysis.

My time at DePaul provided me with a wide array of fundamental computer science and data analysis knowledge. This gave me intellectual confidence but has humbled me as well because it allowed me a glimpse at the immense knowledge landscape. I am self-assured about what I know and very upfront with what I don't. I would be enthused at the opportunity to discuss my skills in more detail to find out if I am the right fit for your team.

Sincerely,

Graham Joss  
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(708)642-9758  
Chicago, IL

## 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

**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.

**Functional ERP Coordinator** at Automated Vehicle Wash Equipment Inc., *April 2024 - Present*

- Apart of the implementation team of a new 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 use of MS Power BI. Recorded manufacturing time studies. Perform inventory identification and conduct in cycle counting.

**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.

## Education

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DePaul University, Chicago, Illinois

**Bachelor of Science in Computer Science - Software Development**  
**Certificate in Geographic Information Systems**

*Graduation May 2024*

## Volunteer

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**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

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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](#).

## Professional References

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Name: Cassie Follett

Position: GIS Coordinator, Instructor

Company: DePaul University

Mobile: (773)325-3267

Email: CFOLLETT@depaul.edu

My Relationship with Cassie was formed at DePaul University. I assisted in Cassie's GIS classes.

Name: Carmi Neiger

Position: GIS Instructor

Company: DePaul University

Mobile: (847) 636-0366

Email: CNEIGER@depaul.edu

My Relationship with Carmi was formed at DePaul University. I assisted in Carmi's GIS class.

Name: Todd P. Parola

Position: Great Lakes Business Development

Company: BioTouch

Mobile: (312) 375-5656

My Relationship with Todd was formed at RR Donnelley. I reported daily to Todd, and he taught me about the direct mail sales process and client service in this context.

Name: John Fabry

Position: Sr Solution Consultant

Company: Venn Consultants LLC

Mobile: (630) 335-7530

My Relationship with John was formed at RR Donnelley. I worked under John for special projects like provisioning Sales Force.