JON OGLE

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DEVELOPER

Coding Expertise – Languages and Tools:
JavaScript; D3.js; HTML & CSS/Sass; Canvas API; Java; npm; React; Plotly; Math.js; NodeJS; Salesforce Lightning Web Components; Postman; Wordpress; Drupal; Elementor; MySQL; PostgreSQL; C/C++; Python; PyTorch; PHP; JSON; RESTful; Git/GitHub;

Computer Science, Programming Courses:
Data Structures / Algorithms; Computer Organization; Analysis of Algorithms; Numerical Analysis; Object-oriented programming; C programming;

PROFESSIONAL EXPERIENCE

ASPHALT GREEN **Jun 2022 - Apr 2024**
Consulting Web Developer
Health and fitness facility dedicated to serving the local upper east side community in NYC.

- Bridged data and marketing teams to better facilitate organization's positive online presence
- Maintenance, updates, restructuring, and revamping of organization's website, massively improving overall user experience
- Assisting with transition to new Wordpress website
- General web stack and software consultation
- Development of custom salesforce components for various departments

KARTOGRAPHIA **Aug 2021 - May 2022**
Software Engineer
Software firm which specializes in complex geospatial and big data problems;
Helped build fraud analysis and charting tools for the Center for Devices and Radiological Health (FDA) that enable investigators to detect fraud and create powerful data visualizations and dashboards.

Impact of contributions:

- Contributed significantly to the development of project BlueWave – a bespoke web app for the CDRH using relational graph database (neo4j).
- Wrote a robust charting library leveraging D3.js that allows users to visualize data with a suite of graph types. Produced complex geospatial mappings/analyses to investigate non-compliant manufacture and imports of medical devices that skirt FDA regulations.
- Built dashboards used by CDRH executives to analyze imports data.

EDUCATION

Colorado State University, B.S., Mathematics, 2018

SELECTED CONSULTING PROJECTS: 2018 – 2021

- **Pandemic modeling / graphing** of growth and projection based on SIR differential equations. Variables could be manipulated (population size, vaccine, infectiousness, death rate); web app graphed projected results.
- **Matrix decomposition generator**, a programmatically complex project using advanced numerical methods. Factors matrices into component matrices to efficiently derive properties of linear systems (eigenvalues, determinant, etc…) Built with HTML/CSS and JavaScript and math.js
  https://jogle32.github.io/portfolio/decompCalc/decomp.html
  https://github.com/jogle32/matrix-decomp/blob/master/decompCalc/main.js