JOE CHANG

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Versatile GIS Analyst with 3 years of experience in leveraging ArcGIS for robust data management, precision mapping, and meticulous metadata administration. Recognized for thriving in dynamic settings, I bring a disciplined and organized approach to tasks, underscored by a sharp eye for detail. I am eager to expand my horizons by integrating software engineering skills acquired through a coding boot camp, aiming to integrate geospatial insights with cutting-edge technological solutions.

EXPERIENCE

Geospatial Data Specialist. Project Team Lead   November 2020 - August 2023
Google Maps

Bothell, WA

- Imported over 100+ Low Emission Zone features into Google Maps for major cities such as London, Paris, and Rome
- Piloted project on Truck GPS covering over 1 million roads across the U.S. and Canada to encourage safe destination routing
- Collaborated with Google Engineers to improve and automate importing processes of large volume spatial features into Google Maps
- Evaluated and used numerous open data sources through ArcGIS to process datasets into a format that is feasible for the automation process
- Documented technical procedures for the Team's workflow to standardize and improve the completion time which effectively improved TAT 140% from Q1 2023 – Q2 2023

EDUCATION

Full Stack Developer Boot Camp, **Per Scholas**   November 2023

16-week Full-Stack Software Engineering course that dives deep into the fundamental aspects of front and back-end software engineering: MERN stack, UI design, and System Architecture, and Back-End Development.

GIS Certificate, **University of Washington**   June 2021

Capstone project in collaboration with Forterra to create an interactive GIS Web Map, visualizing areas of food disparities across Snohomish County, WA and capsulating a written analysis report on the correlations based on census tract data.

Urban Planning B.S. minor: Geography, **Western Washington University**   June 2020

Condensed 10-week process simulating the roles and responsibilities of Urban Planners, our cohort led community meetings to gather initial feedback, which we then meticulously integrated into a mock comprehensive plan for Ferndale, WA. Our final deliverables included a detailed presentation and Comprehensive Plan brochure.

PROJECTS

Google Maps: Implemented over 100 + Low Emission Zones across major European cities. This project has slowly vamped up to include more zones being imported each quarter.
https://www.bbc.com/news/technology-58102651

Per Scholas: 3 Primary modular projects that cover the
- HTML/CSS framework: https://github.com/josephachang02/FinanceApp
- React:
- Mongo DB (back-end):

UW/GIS: A collaborative project with Forterra, using census tract data to breakdown the different socio-ethnic factors that contribute to the lack of food access across Snohomish County.
https://forterra.maps.arcgis.com/apps/mapviewer/index.html?webmap=3238846d43634764b230283c2cd65d61

GIS SKILLS

- ArcMap/GIS/QGIS
- Project/Data Management
- Cartography
- Technical Writing
- Data Analysis
- Urban Planning
- SketchUp
- InDesign/Illustrator
- Python/ArcPy

CODING SKILLS

- Javascript/Node.js
- Typescript, Python/ArcPy
- React
- MongoDB/mongoose
- UI/UX Design
- Browser dev tools
- Express
- Object Oriented Design
- Testing and Debugging
- Source Control Management

REFERENCE

Evan Piehler
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