

JESSICA GARRETT

Full stack developer and FOSS enthusiast, fluent in web development frameworks with a focus in database/ETL management and geospatial application design

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SKILLS

LANGUAGES Python JavaScript HTML5 CSS3 SQL BASH C++ R LaTeX
FRAMEWORKS & LIBRARIES jQuery Node D3 Backbone Webpack OpenLayers Leaflet Bootstrap
DB PostgreSQL SQLite Oracle
TOOLS Docker Apache GeoKettle GeoServer GDAL/OGR QGIS Git JSON AWS MATLAB

Senior Consultant, Web and Mobile Mapping Software Developer IQGeo, Denver, CO

2018 Jan – 2020 Feb

Create custom application controls and plug-ins extending core myWorld products

Configure network server settings securing traffic flow throughout entire system architecture; i.e. application(s), load-balancer, proxy and database servers and external web services (WMS, WMTS, WFS, etc.)

Design, integrate and monitor ETL processes using BASH, Python, GeoKettle, PostgreSQL and GeoServer/GeoWebCache

GIS Engineer/Coordinator

2016 Nov – 2018 Jan

ICON Engineering, Centennial, CO

Oversaw health of all geospatial data including topographic, aerial imagery, LiDAR, FEMA flood databases and infrastructure mapping

Developed custom web mapping applications using MapboxGL-JS, D3.js and Gulp.js, for streamlined user-interactive data analysis

EXPERIENCE

Modeled hydraulic and hydrologic systems via SWMM and Flo2D to guide proactive floodplain management for Colorado municipalities

Forecast Analyst

2015 Jan – 2015 Aug

CenturyLink, Denver, CO

Managed telecommunication clock streams to confirm install and repair intervals in Pacific Northwest markets

Optimized technician assignment provided geographical and workforce constraints

Built master Excel templates (VBA) for AOM distribution

Federal Inside Sales Engineer

2013 May – 2014 Feb

Global Technology Resources (GTRI), Denver, CO

Sourced IT products and services for NASA's SEWP V contract, maintaining technical compliance and price competitiveness

Spearheaded pricing solutions for US Army's ITES-3H contract

Scripted and edited Federal RFP documentation deliverables

EDUCATION

MEng, GIS and Geomatics, University of Colorado Denver

BS, Applied Mathematics, University of Colorado

PRESENTATIONS

2019 myWorld Meetup

Technical Forum, *Building Basemaps for Offline Deployment*

Departmental Honors Thesis

Multidimensional Integration Techniques

*World Geodetic System 1984 (WGS84)