







JESSICA GARRETT

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

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SKILLS

LANGUGES 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
Orchestrate server configurations guaranteeing secure and efficient traffic flow throughout entire system architecture; i.e. application(s), load-balancer, proxy, database and tilestore servers and web services (WMS, WMTS, WFS, etc.)
Design, integrate and monitor ETL processes using BASH, Python, GeoKettle, PostgreSQL and GeoServer/GeoWebCache

GIS Engineer/Coordinator ICON Engineering, Centennial, CO

2016 Nov – 2018 Jan

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 CenturyLink, Denver, CO

2015 Jan – 2015 Aug

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 Global Technology Resources (GTRI), Denver, CO

2013 May – 2014 Feb

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)