







# 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

LANGUAGES Python JavaScript HTML5 S/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, including application(s), load-balancer, proxy, internal/external database and tilestore servers and web services (WMS, WMTS, WFS, etc.)  
Design, integrate and monitor bulk and incremental 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)