






# 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

### Web Developer Volunteer

2020 March – Present

Health4TheWorld, *International - Remote*

Design and implement a web-based PPE global locator tool for Covid-19 health responders

Construct geodatasets for various mapping applications

Manage and update organization's website (WordPress)

### Senior Consultant, Web and Mobile Mapping Software Developer

2018 Jan – 2020 Feb

IQGeo, *Denver, CO*

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

Orchestrated network configurations for application(s), load-balancer, proxy and database servers and web services (RESTful)

Created, integrated and monitored ETL processes using BASH, Python, GeoKettle, PostgreSQL and GeoServer

## EXPERIENCE

### 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

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

## 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*

### Guest Lecturer

University of Colorado Denver College of Engineering, graduate GIS courses