SHELLEY BROADWAY

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SKILLS SUMMARY

Advanced	Intermediate	Novice
• ArcGIS: Data creation and editing, Geocoding, Georeferencing, Geodatabase design and management, Geoprocessing, Topology, Selection and querying, Model Builder, Arcpy	• PostgreSQL and PostGIS	• Python
• ArcGIS Online	• GeoServer	• TransCAD
• Microsoft Office	• QGIS	• Git
• IPython (Jupyter) Notebooks	• Agisoft PhotoScan	• Django/Geodjango
• Anaconda/Conda	• WordPress	• MatLab
	• Mapbox	• JavaScript
	• HTML	• ArcGIS Server
	• CSS	• Adobe Photoshop
	• Bootstrap	• Adobe Illustrator
		• Adobe InDesign

EDUCATION

University of Colorado Denver – Denver, CO   (May 2016)
 Master of Engineering
 Specialization: Geographic Information Systems
 GPA: 4.0
  Relevant Coursework: Intro to GIS, Interactive Web Mapping, Unmanned Aerial Systems, Computing Methods in Civil Engineering, Relational Database Management Systems, Geomatics, Advanced Geospatial Methods

Auburn University – Auburn, AL   (December 2010)
 Bachelor of Science in Business Administration
 Specialization: Economics

PROFESSIONAL EXPERIENCE

Travel Modeling Technician | Colorado Department of Transportation
January 2017 – Present
- Accelerated geocoding of all Colorado businesses from months of data cleaning to one week with automated script utilizing Google APIs
- Improved address data cleaning process using python and Pandas data analysis library
- Established, configured, and maintained virtual environments for both Python and non-Python libraries using conda package manager
- Created web-based visualizations of large datasets to support Statewide Travel Model
- Supported modeling team with various GIS-related analysis (i.e. creating network topology, conflating road network datasets)

Web Portals Development Technician | International Game Technology
August 2016 – December 2016
- Created extensive editorial review documentation ahead of deadline to ensure branding consistency throughout new product demo website
- Collaborated with multiple teams to compile cross-product client requirements documents
- Activated and uploaded assets packages through Adobe Experience Manager (CQ5)
- Completed training in HTML, CSS, and Bootstrap front-end development framework

Planning and Engineering Services Intern | Aurora Water
February 2016 – August 2016
- Edited geospatial data for utilities department consisting of a large service area of over 151 square miles
- Interpreting civil plans for digitizing into the GIS
- Created proposed infrastructure map based on master utility studies
- Performed data cross check of pressure contours using Spatial Analyst and raster calculations
- Developed shapefile using several geoprocessing procedures to use as input for the city's population and employment allocation tool
- Updated wet utilities geometry and attributes in versioned database (SDE)

Solution Engineer Intern | Esri
May 2015 – September 2015
- Managed web-based projects with two to four Solution Engineers within the County Government team
- Provided client support and solutions using ArcGIS Platform in five state service area
- Integrated data into Local Government schema and configured applications based on ArcGIS and JavaScript for four Colorado counties
- Digitized aesthetic features for contribution to Esri's Community Maps Program and Living Atlas of the World
- Received training in Performing Analysis, Configuuring Multiuser Geodatabases, and ArcGIS for Server

Graduate Research Assistant │ University of Colorado Denver, Department of Civil Engineering

July 2015 – October 2015

- Assigned control points based on digital aerial imagery using Agisoft PhotoScan
- Responsible for photogrammetric processing workflow: align photos, build dense point cloud, build mesh

Promotions and Outreach │ University of Colorado Denver, FOSS 4G Lab

February 2015 – May 2015

- Improved marketing materials and produced multiple posters for monthly speaker series
- Updated lab website with upcoming events and links to webinar materials
- Coordinated with team of university staff and students to publicize events and promote the lab through tutorial series and semester-end roundtable event

Parks Planning Intern │ Foothills Park & Recreation District

December 2013 – May 2014

- Conducted study to assess accessibility of park playgrounds in relation to public schools taking into account safety, distance, census data, traffic data, and ADA standards
- Designed a file geodatabase for parks planning department
- Produced high quality deliverables (shapefiles, KMLs, GDB files) for parks department to use for future planning

Outreach Alumni Mentor │ Mile High Youth Corps

August 2012 – December 2013

- Supervised and coordinated recruitment efforts: database management, community networking, email marketing and maintaining communications with referral partners
- Assisted the Marketing and Development Department with planning annual fundraisers
- Coordinated volunteers during fundraising event: created position descriptions, managed community outreach, and conducted training and orientation for over 40 volunteers; managed all volunteers night of event

CERTIFICATES

Geographic Information Systems Certificate, University of Colorado Denver	May 2015
ArcGIS III: Performing Analysis, Esri	May 2015
ArcGIS for Server: Site Configuration and Administration, Esri	June 2015
Configuring and Managing the Multiuser Geodatabase, Esri	July 2015

ACTIVITIES

Growing Colorado Kids, Volunteer and Video Editor, June 2013-Present

Washington Park United Methodist Church Preschool, Marketing and Branding Committee Chair, May-October 2015