ERICH PURPUR

Charlottesville, VA **|** 828 773 7140 **|** epurpur@gmail.com
github.com/epurpur **|** epurpur.github.io

SKILLS

Languages **|** HTML5, CSS3, JavaScript ES6+, Python 3.x, SQL, R

Frameworks **|** Python: Flask, Django, Streamlit

Tools/Software **|** Git, PostgreSQL/PostGIS, SQLite, QGIS, PyQGIS API, Salesforce API, GeoServer, ESRI ArcGIS Stack, Amazon Web Services (AWS), Mapsimise

PROJECTS

OneFigr | Python Django Application **|** https://onefigrapp.lib.virginia.edu

- Analyzes and visualizes library collection use data for University of Virginia Library system.
- Tools: Django, Python, Pandas, NumPy, HTML, CSS, JavaScript, jQuery, HighCharts, AWS

EcoValuator | QGIS Plugin **|** http://www.keylogeconomics.com/ecovaluator.html

- Predicts land valuation for different land use types throughout North America
- Tools: Python, QGIS 3.x, PyQGIS (QGIS python API)

Boone Real Estate | Direct Mail Solution **|** https://boonerealestate.useast.mapsimise.com/

- Cleaned and managed direct mail data and implemented direct mailing workflow
- Tools: Python, Pandas, NumPy, PostgreSQL/PostGIS, Salesforce API, Salesforce DataLoader, Mapsimise

Is It Dry? | Python Flask Application **|** https://isitdry.herokuapp.com

- Allows finding weather forecast at rock climbing areas internationally
- Tools: Python, Pandas, SQLite, HTML, CSS, JavaScript, Google Maps API, OpenWeatherMap API

Virginia River Monitor | Python Streamlit Application **|** http://varivermonitor-streamlit.herokuapp.com/

- Monitors river levels in and around Charlottesville, VA. Displays data in chart format
- Tools: Python, Pandas, NumPy, Matplotlib, USGS Water Services API

NPS Finder | JavaScript Web Application **|** https://epurpur.github.io/Project1_NationalParkService/

- Browses for National Park Service information spatially on a map or by name
- Tools: HTML, CSS, JavaScript, Leaflet, jQuery UI, National Park Service API

EXPERIENCE

Research Librarian for Science & Engineering

September 2017 – Present **|** University of Virginia **|** Charlottesville, VA

- Serves as liaison to various science & engineering departments
- Teaches Workshops & Classes related to programming and software topics including: Version Control, Python Programming, GIS Software
- Collaborates on data application development for internal library use

Freelance GIS Consultant & Data Wrangler

January 2018 – Present **|** Charlottesville, VA

- QGIS Python Plugin Development
- Handling data throughout its lifecycle. Data discovery, acquisition, cleaning, analysis, implementation
- Cartography (both web-based and static mapping)

GIS Librarian

December 2013 – January 2017 **|** University of Nevada, Reno **|** Reno, NV

- Supervised, coordinated, and implemented GIS services for students, staff, faculty
- Implement makerspace technology including 3D printing, 3D scanning, laser cutting, etc.
- One of team who administered W.M. Keck Geospatial Data Repository
- Served as liaison so various science & engineering departments

EDUCATION

B.S. Geography w/ GIS Concentration **|** Appalachian State University **|** Boone, NC **|** December 2009

MSLS Library Science **|** University of North Carolina, Chapel Hill **|** Chapel Hill, NC **|** May 2013

OTHER

- Certifications: Certified GIS Professional (GISP) **|** https://www.gisci.org/
- Languages: English (native), Spanish (advanced conversational), French (intermediate conversational)