# ERICH PURPUR

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github.com/epurpur | epurpur.github.io/MyPortfolio

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## SKILLS

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

Frameworks | Python: Flask, Django, Streamlit

Tools/Software | Node.js, Express, Sequelize, Handlebars, Git, PostgreSQL/PostGIS, MySQL, SQLite, QGIS, PyQGIS API, Salesforce API, GeoServer, ESRI ArcGIS Stack, Amazon Web Services (AWS)

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## 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.com//

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

**Light Cville |** Node.js Application **|** https://lightcville.herokuapp.com

- Web application which allows management of city streetlight utilities for City of Charlottesville, VA
- Tools: Node.js, MySQL, Sequelize ORM, Express Server & API, Handlebars templates, Leaflet, Tabulator

**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

**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

BS 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)