Stephen Sanchagrin

sanchagrins@gmail.com | sanchagrins.github.io

EDUCATION

UNIVERSITY OF MARYLAND, UNIVERSITY COLLEGE
BS in Computer Science
May 2018 (Expected) | Aldephi, MD
GPA: 4.0 / 4.0

EAST CAROLINA UNIVERSITY
MA in Maritime History
May 2014 | Greenville, NC
GPA: 3.78 / 4.0

EAST CAROLINA UNIVERSITY
BS in Applied Geography
Dec 2007 | Greenville, NC
Magna Cum Laude
GPA: 3.73 / 4.0

SKILLS

PROFICIENT
Java, Python, GIT,
Django, HTML, CSS
Bootstrap, JSON, LaTex

FAMILIAR
C, JavaScript, PostgreSQL
MongoDB, Maven, Heroku

LINKS

Github:// sanchagrins
LinkedIn:// sanchagrins

EXPERIENCE

DEWBERRY, LLC | Geospatial Analyst
Aug 2013 – Sep 2014 | Fairfax, VA

- Utilized Python and spatial statistical software packages to create flexible hydrodynamic inundation models to aide in analysis of costal hazards and sea-level rise.
- Significantly decreased overall model runtime by automatic tasks with scripting.
- Personally developed and delivered a product valued at $150k within a month long deadline, on time and under budget, utilizing the custom computer model.
- Published map services to web servers.

RENAISSANCE COMPUTING INSTITUTE | Geospatial Analyst
May 2008 – Jun 2012 | Greenville, NC

- Developed complex geospatial models of coastal processes.
- Analyzed model spatial resolution using a custom Monte Carlo simulation developed in python.

PROJECTS

DJANGO SLACK INVITE | Python/Django/Heroku

- A customizable barebones Django app for automating the invite process for Slack.
- Easily deployable with integrated Heroku support.
- Designed utilizing Test Driven Design (TDD) with 81% coverage.
- Documentation created with Sphinx and hosted on readthedocs.io

CS RESUME REDDIT BOT | Python/Tesseract/MongoDB

- Reddit bot that scrapes a popular Computer Science sub-reddit for resumes.
- Resumes are preprocessed with a custom image filter and parsed with the open source Tesseract Optical Character Recognition Engine.
- Extracted data is stored in a MongoDB and analyzed using descriptive statistics.

BOUYCALC | Java/Maven

- Makes request to NOAA National Buoy Data Center and retrieves information.
- Calculates descriptive statistics from buoy data.
- Dependency resolution and artifact creation handled with Maven.

PUBLICATIONS

[1] Sanchagrin, Stephen. A View Through the Periscope: Advanced and Geospatial Visualizations of Naval Battlefields. Proquest LLC. 2014. Ann Arbor MI.

[2] Allen, Thomas, Stephen Sanchagrin, and George McLeod. Visualization for Hurricane Storm Surge Risk Awareness and Emergency Communication, Approaches to Disaster Management - Examining the Implications of Hazards, Emergencies and Disasters. John Tiefenbacher. 2013.