

Stephen Sanchagrín

sanchagrins@gmail.com

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
Maven, Heoku

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 above mentioned computer model.

RENAISSANCE COMPUTING INSTITUTE@ECU

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
- Participated in research design and outreach.

PROJECTS

DJANGO SLACK INVITE | Python/Django/Heroku

- Developed a flexible Slack invite page utilizing the Django framework.
- Deployed to Heroku.
- Designed utilizing Test Driven Design (TDD) with 81% coverage
- Documentation created with Sphinx and hosed on readthedocs.io

CS RESUME REDDIT BOT | Python/Tesseract

- Reddit bot that scrapes a popular Computer Science sub-reddit for resumes and identifies key data trends.
- Utilizes BoutifulSoup, Pillow, and pytesseract

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

[2] Allen, Thomas, Stephen Sanchagrín, 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.