

Alexander Samalot

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<https://alexsamalot19.github.io/ASamalotPortfolio> | <https://github.com/alexSamalot19>

Objective: Application Developer Open Science Position

Environmental Engineer leveraging professional full stack development experience, published statistical research, and a passion for learning new technologies

Education:

University of Connecticut, Storrs, CT
Masters of Science in Engineering, August 2017
Environmental Engineering; GPA: 3.5/4.0

University of Connecticut, Storrs, CT
Bachelors of Science in Engineering, May 2014
Environmental Engineering; GPA: 3.2/4.0

Peer-Reviewed Publication:

A. Samalot, M. Astitha, J. Yang, G. Galanis, " Combined Kalman Filter and Universal Kriging to Improve Storm Wind Speed Predictions for Northeastern U.S.," *Weather and Forecasting*, June 2019

- Successful reduction of high-resolution Numerical Weather Prediction model bias for over 100 extreme weather events that impacted the Northeastern United States using knowledge of geostatistics and probabilistic properties of model error
- Developed Python code to request and collect station observations from a federal database
- Extensive statistical analysis of model outputs and graphical representation using R
- Basic Linux platform navigation, familiarity with vi editor, as well as filtering I/O to searches

Employment:

GZA GeoEnvironmental, Glastonbury, CT (March 2021-Present)

- Environmental data collection used for monitoring compliance with state and federal regulation
- Reported environmental concerns and their potential sources for a wide variety of clients

GalaxE Solutions, Hartford, CT (April 2020-March 2021)

- Professional group coding development with shared cloud databases and GitLab repositories
- Web application development, update deployment, and production support triage

Full Stack Professional Development:

GalaxE Solutions, Hartford, CT (April 2020-March 2021)

- Team development of Angular front end Spring Boot back end application utilizing user authentication for role based portals containing dynamically updated pages
- Data binding of interactive tables, forms, navigation menus and pop-ups
- API calls with HttpClientModule to perform CRUD Operations, reading and writing excel files and performing customized notifications
- Developed ReactJS front end for an interactive graphical database proof of concept
- Adjudication API development to modernize backend mainframe call logic

Computer Skills:

Python, ReactJS, Node.JS, AWS, Firebase, GitHub, GitLab, Docker, Postman, PostgreSQL, Jenkins, MySQL, Docker, JIRA, Linux, R, MongoDB, HTML, CSS, TypeScript, Java, Spring-Boot, Angular, and Grafana