Alexander Samalot

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

Objective: Software Engineer Position

Full Stack Developer leveraging professional Java and JavaScript development, 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

Full Stack Professional Development:

GalaxE Solutions, Hartford, CT (March 2020-Present)

- Team development of an 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
- Wide variety of styling including Bootstrap and Material Design and NgIf Directive conditions
- API calls with HttpClientModule to perform CRUD Operations, reading and writing excel files and performing customized notifications

Employment:

GalaxE Solutions, Hartford, CT (March 2020-Present)

- Spring Boot microservice maintenance and updates as well as ReactJS and Angular development
- Professional group coding development with a shared Mongo database and GitLab repository

Whitestone Associates, Rocky Hill, CT (June 2018 - March 2020)

- Report writing based on data collected from public records and private construction services
- On-site inspections of geotechnical construction elements to ensure built as designed

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

Computer Skills:

Java, Spring Boot, Angular, ReactJS, JavaScript, TypeScript, Node.JS, MongoDB, Express, Handlebars, HTML, CSS, Google Firebase, GitLab, Docker, Postman, PostgreSQL, Python, Linux, R, and MATLAB