

Alexander Samalot

119 Mohawk Drive, West Hartford, CT | alexsamalot19@gmail.com | (860)726-8447 | www.linkedin.com/in/alexSamalot

Objective: Junior Software Engineer position with GalaxE Solutions

Full Stack Developer leveraging recently published statistical research, six years of group code development projects 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 Bootcamp Development Projects:

University of Connecticut, Stamford, CT (August 2019-Present)

- Developed ReactJS apps with interactive components and data passed through props
- Backend Development of a National Parks App utilizing Node.JS runtime, Express routing and Sequelize queries to manage road trip data displayed as handlebars templates
- Independent development of a Java coin parse app that is given an amount of change and coins as command line arguments to provide the optimal coin use in the terminal
- Independent development of an administrative app using Spring-Boot, PostgreSQL and ReactJS

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
- Basic Linux platform navigation, familiarity with vi editor, as well as filtering I/O to searches and copy commands
- Extensive statistical analysis of model outputs and graphical representation using R

Employment and Research:

Whitestone Associates, Rocky Hill, CT (June 2018-Present)

- 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

Atmospheric and Air Quality Modeling Group, Storrs, CT (August 2014-June 2019)

- Research on optimal Kalman Filter and spatial detrending based on M.S. Thesis framework
- Presented Thesis findings at poster sessions and seminars for feedback and collaboration

Computer Skills:

JavaScript, Java, ReactJS, Node.JS, MongoDB, Express, Handlebars, HTML, CSS, Google Firebase, GitHub, Spring-Boot, Docker, Postman, PostgreSQL, Python, Linux, R, MATLAB, LaTeX, C++ and FORTRAN