Kleia LaRoe

Software Engineer



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kleialaroe.github.io/personal-site/



github.com/kleiaLaRoe

Relevant Experience

Software Engineer @ Shelter Insurance

March 2019 – Present

Columbia, MO

- Implement high quality code in an agile, test-driven development environment using automation and best practices.
- Work with cross-functional agile teams to collaborate, educate, and learn from Product Owners, Scrum Masters, and Business Stakeholders.

Accomplishments

- Learned how to and implemented an infinite scrolling feature for a photo viewing service that is used by agents in the field.
- Helped with implementing a new rate plan that is gives a more accurate rating for customers based on previous history.
- Helped with handing over and educating a new agile team about a couple of applications that my team oversaw.

Research Assistant @ University of Missouri

June 2016 - Aug. 2018

Columbia, MO

- Analyzed 3-dimensional data to extract features, train and test models, and give a baseline of accuracy to compare against.
- Presented results and findings on a weekly and semesterly basis with United States Military and other contractors.

Accomplishments

- Presented paper at SPIE convention about effectiveness of Hidden Markov Models being able to detect a sequential sequence for explosive hazards.
- Hand labeled data that was used as a human baseline for testing and comparing models against

Publications

Detecting explosive hazards in 3D radar imaging through clustering and sequential learning

Apr. 2018 • Proc. SPIE 10628 • Detection and Sensing of Mines, Explosive Objects and Obscured Targets XXIII • Orlando, FL

Skills

Programming Languages

Java, JavaScript, HTML, Python, SQL, CSS, C++, Typescript, XML

Libraries & Frameworks

jQuery, RabbitMQ, AngularJS, Bootstrap, Spring, PyTorch, scikit-learn, Keras

Tools & Platforms

Git, MATLAB, Gradle, Jenkins, Postman, JIRA

Education

University of Missouri

2017-2018, Columbia, MO Master of Science, Computer Engineering

2011-2016, Columbia, MO Bachelor of Science, Electrical and Computer Engineering Minors in Computer Science and Mathematics

Projects

Studying SARS-CoV2

Modeling the rate of infections, hospitalization, and mortality in the United States and compared them to other countries. Data was pulled in from Johns Hopkins daily and plotted.

Finding Volcanoes on Venus

Class project that used semi-supervised Convolutional Neural Networks to identify volcanoes on Venus. The results were compared to a supervised model that was found in Kaggle as a baseline.

Interests

Magic: the Gathering, Dungeons & Dragons, Crocheting, Cooking, Traveling