Stefan Eng

Education

- Currently in Master's Programme in Mathematical Sciences (Statistics) at Gothenburg University/Chalmers.
- Bachelor of Science in Mathematics & Computer Science at California State University, Northridge

Work Experience

Scientific Computing @ Novartis

June 2019 - Current

- Internship in the Scientific Computing and Consulting (SCC) group within Biostatistics at Novartis in Basel, Switzerland.
- Building R Shiny web applications for interactive data visualization and exploration of clinical trial data.

Programmer/Analyst @ CRESST/UCLA

August 2016 - June 2018

- Worked on research projects involving natural language processing (NLP)
    - Presented results at IEEE Conference on Semantic Computing Eng, Tan, and Iseli (2018)
- Created an interactive game using Angular2/Ionic to test and measure reasoning and problem solving where students attempted to solve tasks by programming an on-screen vehicle.
    - Conducted multiple data collections at high schools across Los Angeles where around one hundred students were involved in the data collection.
    - Event data was analyzed and exploratory analysis was conducted to summarize student's problem solving and reasoning abilities.

Data Scientist/Software Developer @ JPL

June 2013 - May 2016

- Managed data processing pipeline for Cassini and Dawn missions which includes Scala/Apache Spark ingest code and managing Elasticsearch cluster.
- Wrote parsers to bring old proprietary data formats into common and modern formats. Including XML parsing, web scraping, and Scala's parser combinators.
- Lead a project to extract data, using Apache Tika, from word documents into MongoDB and presented with a web interface.

Publications

[1] S. Eng, J. Tan, and M. Iseli. "Adjective Intensity Ordering by Representing Word Definitions as a System of Linear Equations". In: 2018 IEEE 12th International Conference on Semantic Computing (ICSC). IEEE, Jan. 2018. DOI: 10.1109/icsc.2018.00047. URL: https://doi.org/10.1109/icsc.2018.00047.