Jake Kenneally

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WORK EXPERIENCE

Data Scientist, Commonwealth Computer Research, Inc. (CCRi) July 2014 – Present

- GeoMesa, an open-source, distributed, spatio-temporal database written in Scala and built on top Accumulo
  - Developed support for ingesting, storing, and querying raster images.
  - Created a set of command line tools for ingesting, viewing, and deleting data.
  - Enhanced security and functionality of a GeoServer plugin for joining data from two separate stores, where data stored in GeoMesa is joined with baseball-card-like data from a separate store.
  - Developed an ingest pipeline using Apache Storm and Kafka to ingest artifacts of many different types, transform them to specified data models, and add indices in GeoMesa.
- Stealth, an AngularJS-based geospatial visualization and analytics suite
  - Implemented a custom version of Stealth with aspects of Material Design and a custom module for visualizing the Global Database of Events, Language, and Tone (GDELT) for GeoMesa on Google Cloud Bigtable.
  - Created and integrated AngularJS modules for running spatial predictions, creating density surfaces, and performing route planning and analysis.

IT Intern in DevOps, Genworth Financial May 2013 – August 2013

- Puppet Manager, a CodeIgniter (PHP) webapp to communicate with puppet
  - Designed and built the webapp to inventory 300+ server nodes, act as the Puppet master, and automate the provisioning and orchestration of each node through a simple UI.
- F5 Load Balancers
  - Tested upgrades to the system before rolling out into the production environment.

Intern, Commonwealth Computer Research, Inc. (CCRi) May 2012 – March 2013

- SWIFT, a Prediction Analysis software with a Java backend and ExtJS frontend
  - Resolved over 40 user interface bugs, including porting the entire application to a new version of the common UI framework used at CCRi
  - Improved search capabilities using Compass and Lucene to allow searching event metadata based on user input in the UI
- SPINOZA, an early-warning threat prediction and analysis software with a Java backend and ExtJS frontend
  - Created a new time series visualization, a “punchcard” similar to GitHub’s commit punchcard, using D3.js for visualizing the frequency of events in a week at certain hours of day

EDUCATION

B.A. Computer Science, with Distinction, University of Virginia August 2010 – May 2014

GPA: 3.651

Awards and Honors:

- Dean’s List
- Theta Chi National Chapter Foundation Sherwood Blue Memorial Scholarship; Xi Chapter Presidential Scholarship
- Third Year Council Ring Scholarship Recipient

PROJECTS

VOCAL Admin August 2013 – May 2014

- Implemented a Ruby on Rails administration webapp for VOCAL Virginia through the CS Service Learning Practicum at the University of Virginia and saved approximately 10 hours per week for employees of VOCAL.

BeforeYouGraduate August 2013 – May 2014

- Personally designed and created a CodeIgniter-based webapp using JavaScript and jQuery on the frontend to allow users to track completion of the 2014 Trustees List of 114 Things to do Before You Graduate.

RushThetaChiUVa December 2012 – Present

- Personally designed and implemented a MySQL database-driven CodeIgniter webapp for automating and organizing Fraternity Recruitment and saved 20+ hours of work for the Rush.

PERSONAL

- University of Virginia Young Alumni Council Member and Post Graduate Trustee
- Writer for Audiologue, a podcast review website
- Runs DidUVaWin.com for Virginia Basketball
- Plays guitar, violin, and ukulele