

# Jake Kenneally

jakekenneally@gmail.com | jakekenneally.com

## EXPERIENCE

### Commonwealth Computer Research, Inc. (CCRI), Charlottesville, VA

#### *Data Scientist*, July 2014 to present

**Arpeggio**, an analytics and visualization suite for data harmonization in the browser, written in Scala and Angular

- Led the development team, efforts, and delivery of application
- Moved expensive frontend data processing to server to deliver 10-20x speed improvements
- Implemented automated report generation to reduce months of client work down to minutes

**GeoMesa**, an open-source, distributed, spatio-temporal database written in Scala

- Developed support for ingesting, storing, and querying raster images
- Created a set of CLI tools for ingesting, viewing, and deleting data
- Developed an ingest pipeline with Apache Storm and Kafka to store any type of geospatial data in GeoMesa

**Stealth**, a dynamic AngularJS geospatial visualization tool capable of animating millions of entities in the browser

- Created a plugin to visualize GDELT data queried from GeoMesa on Google Cloud Bigtable
- Integrated in-house spatial prediction and route planning services into the UI

### Genworth, Richmond, VA

#### *IT Intern in DevOps*, May 2013 to August 2013

**Puppet Manager**, a CodeIgniter webapp to communicate with Puppet

- Automated provisioning and orchestration of each Puppet node through a simple UI

**F5 Load Balancers**

- Tested upgrades to the system before rolling out to the production environment

### Commonwealth Computer Research, Inc. (CCRI), Charlottesville, VA

#### *Intern*, May 2012 to March 2013

**SWIFT**, prediction analysis software written in Java and ExtJS

- Resolved 40+ UI bugs and upgraded to new version of common UI framework used at CCRI
- Improved search using Compass and Lucene to allow searching event metadata

**SPINOZA**, early-warning threat prediction and analysis software written in Java and ExtJS

- Created a punchcard time series visualization using D3 to show frequency of weekly events at certain hours of day

## PROJECTS

### VOCAL Virginia, Charlottesville, VA

#### August 2013 to May 2014

**VOCAL Admin**, an administrative app for VOCAL Virginia developed in the CS Service Learning Practicum at UVA

- Provided free software development and support for a nonprofit organization
- Gained year-long experience in Ruby on Rails, Agile development principles, and client interaction
- Saved 10 hours per week for VOCAL employees and automated many administrative tasks of the organization

### Class of 2014 Trustees, Charlottesville, VA

#### August 2013 to May 2014

**BeforeYouGraduate**, a webapp to assist in completing the list of 114 Things to do Before You Graduate

- Built and maintained CodeIgniter webapp with 200+ users

### Theta Chi Xi Chapter, Charlottesville, VA

#### December 2012 to present

**RushThetaChiUVA**, a webapp to automate fraternity recruitment

- Saved 20+ hours of work for the Rush Chairs

## EDUCATION

### B.A. Computer Science, with Distinction, University of Virginia

#### August 2010 to 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

## PERSONAL

- University of Virginia Young Alumni Council Member and Post Graduate Trustee
- Plays guitar, violin, and ukulele
- Starred in a dramatic reenactment true crime TV show on Discovery Channel