

# Jake Kenneally

## EXPERIENCE

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

UI/UX Software Engineer, July 2014 to present

#### **Arpeggio**, a marketing data analytics webapp written in Scala and Angular

- Led the development team, efforts, and delivery of application, including upgrade from AngularJS to Angular 2+
- Moved expensive frontend data processing to backend to deliver 10-20x speed improvements
- Implemented automated report generation, with PDF, PPT, and CSV support, to reduce months of client work to minutes

#### **Stealth**, a geospatial data visualization toolset in the browser written in AngularJS

- Built reusable 2D-histogram, grid, and customizable "baseball card" AngularJS libraries to visualize data in different ways
- Created a plugin to plot GDELT event data by type and query from GeoMesa on Google Cloud Bigtable
- Integrated in-house spatial prediction and route planning services in the UI

#### **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

### Genworth, Richmond, VA

IT Intern in DevOps, May 2013 to August 2013

#### **Puppet Manager**, a Codelgniter 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 Codelgniter 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

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