# Jake Kenneally

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## 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