

JAKE KENNEALLY

jakekenneally.com | github.com/jdk2pq

EXPERIENCE

Dorsata | Senior Software Engineer | Remote | January 2020 – Present

An obstetrics platform focused on ACOG prenatal record best-practices made with Vue, AngularJS, Ruby on Rails, and Postgres

- Greatly improved performance by reducing bundle and payload sizes, migrating from AngularJS to Vue, and fixing memory leaks
- Added full-stack preloading and lazy-loading strategies for near instant app launch
- Built greenfield Dorsata Inbox sub-app for alerting providers on issues with patient safety and care gaps
- Created JSON-based, dynamically customizable New OB Questionnaire and medical ordering systems
- Introduced Storybook, 30+ reusable frontend components, shimmer loading state, and performance metric tracking
- Helped develop a Chrome Extension and added cross-application communication and features

CCRI | UI/UX Software Engineer | Charlottesville, VA and remote | May 2012 – December 2019

Stealth | *A global geospatial data visualization toolset in the browser made with AngularJS, Scala, and GeoServer, and GeoMesa*

- Enhanced maritime and airspace analysis by adding 2D Histogram, data grid, and customizable map popup plugins
- Improved performance of large queries by investigating and utilizing Apache Arrow
- Built Docker containers for efficient, repeatable deployments of Stealth, GeoServer, and GeoMesa plugins
- Created an AngularJS plugin to query and display GDELT event data leveraging GeoMesa on Google Cloud Bigtable

Arpeggio | *A data-driven marketing analytics webapp made with Angular, Scala, and Postgres*

- Served as Tech Lead to guide the development team, handle weekly data ingest, and ensure client needs were met
- Upgraded frontend from outdated AngularJS built with Grunt to use Angular 7 built with Webpack
- Moved expensive frontend data processing to backend to deliver 10-20x speed improvements
- Implemented automated PDF, PPT, CSV, XLS, and email report generation to reduce months of client work to minutes

Sanitracker | *A webapp to track bacteria levels by room in the UVA Medical Center made with Angular, Scala, and Postgres*

- Led a team of four in successful deployment and delivery of the product on an aggressive 3-month deadline
- Built d3.js bar, line, pie chart, and floor plan visualizations with cross-filter support in an accompanying data grid

GeoMesa | *An open-source suite of tools that adds geospatial querying and analytics to distributed databases made with Scala*

- Developed support for ingesting, storing, and querying raster images
- Created CLI tools to more simply ingest, query, and delete data
- Developed ingest pipeline with Apache Storm and Kafka to store multiple types of geospatial data in GeoMesa

SWIFT/SPINOZA | *Early-warning threat prediction and analysis webapps made with ExtJS and Java*

- Resolved 40+ UI bugs and upgraded SWIFT's frontend to use the new version of CCRI's common UI framework
- Created a punchcard time-series visualization using D3 to show the frequency of weekly events by hours of the day

PROJECTS

Personal website | jakekenneally.com | 2013 – Present

Did UVA Win? | diduvawin.com | 2014 – Present

- Created an open-source webapp to track UVA football and basketball using Express, TypeScript, the ESPN API, and Heroku

OX Rush | ox-rush.herokuapp.com | 2012 – Present

- Built a webapp to help automate fraternity recruitment for the Theta Chi Xi Chapter using Node, React, TypeScript, and Heroku
- Saved 20+ hours of manual and repetitive Excel and PowerPoint work for the fraternity Rush Chairs

VOCAL Admin | 2013 – 2014

- Created free application for the nonprofit VOCAL Virginia through the CS Service Learning Practicum using Ruby on Rails
- Saved 10 hours/week for VOCAL staff and automated their redundant administrative tasks

Before You Graduate | 2013 – 2014

- Built a CodeIgniter PHP webapp for the UVA 2014 Trustees to manage completing the "114 Things to do Before You Graduate"

EDUCATION

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

GPA: 3.651, **Minor:** Media Studies

Relevant Courses: CS Service Learning Practicum, Web and Mobile Systems, Program & Data Representation, Algorithms, Operating Systems, Software Design Patterns, Cloud Databases, Digital Logic Design, HCI in Software Development, Data Visualization

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

SKILLS

Proficient: JavaScript, TypeScript, Vue, Angular, React, HTML/CSS, Webpack, Ruby on Rails, Node, Scala, Java, Git, SQL, Postgres

Familiar: Docker, d3.js, Python, Cloud databases, PHP, Apache Arrow, Apache Storm, Apache Kafka, C++, C