

# JAKE KENNEALLY

[jakekenneally.com](http://jakekenneally.com) | [github.com/jdk2pq](https://github.com/jdk2pq)

## EXPERIENCE

**Fundrise** | Principal Software Engineer, Front End | DC, Remote | July 2021 – Present

**RealAI** | [realai.com](http://realai.com) | *An AI platform and webapp for real estate analytics intelligence* | Vue 3, TypeScript, Java

- Led development of an advanced, performant map client built on Leaflet for visualizing 250k+ features simultaneously
- Used Vercel's AI SDK and a custom client-side Markdown/LaTeX library to stream rich-formatted AI responses with no lag
- Introduced an interactive multi-panel UI in a single browser tab with drag-and-drop, resize, and snap-positioning layout support
- Spearheaded the switch from Bitbucket to GitHub for improved developer experience, better code review, and 5x faster CI

**Equitize** | [equitize.app](http://equitize.app) | *A solution for employees to get liquidity for their company equity* | Vue 3, TypeScript, Java

- Helped establish the Innovation Fund at Fundrise, a \$150M+ fund investing in the highest-growth pre-IPO tech companies
- Appointed to lead the front end team of a greenfield project after being recognized for extremely high performance and knowledge
- Designed and built 2 distinct dashboards with Auth0's role-based auth and GraphQL to allow companies to visualize their equity
- Established company-wide best practices for, and adoption of, Vue 3, Vite, Vitest, Playwright, and Storybook

**Fundrise webapp** | [fundrise.com](http://fundrise.com) | *An alternatives-investing platform* | AngularJS, Vue 2/3, TypeScript, Java

- Assisted with 2+ year migration from AngularJS to Vue 2, and then Vue 2 to Vue 3
- Introduced front end hot-reloading to reduce time needed to see changes in the browser from 5 minutes to less than 5 seconds
- Led discussions at bi-weekly front end architecture and Web RFC meetings to plan the future of front end development

**Dorsata** | Senior Software Engineer | Remote | January 2020 – June 2021

**Dorsata Prenatal** | [dorsata.com](http://dorsata.com) | *A health platform built on best practices in Ob-Gyn care* | Vue, AngularJS, Ruby on Rails, Postgres

- Boosted performance by 3x by shrinking bundles, preloading assets, migrating from AngularJS to Vue, and fixing memory leaks
- Built greenfield "Care Gap Inbox" sub-app for immediately alerting providers on issues with patient safety
- Created JSON-based, dynamically customizable "new patient" questionnaire and medical ordering systems
- Introduced Storybook, 30+ reusable front end components, skeleton loading states, and performance metric tracking
- Helped develop a Chrome Extension and added cross-application communication and features to reduce load times by 10x

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

**Stealth** | *A global geospatial data visualization toolset in the browser* | AngularJS, TypeScript, Scala

- 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 built for Samsung and Spotify* | Angular, TypeScript, Scala, Postgres

- Served as Tech Lead to guide the development team, handle weekly data ingest, and ensure client needs were met
- Upgraded front end from outdated AngularJS built with Grunt to use Angular 7 built with Webpack
- Moved expensive front end 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* | Angular, TypeScript, Scala, 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* | Scala, Accumulo

- 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

## PROJECTS

**Re-news-er** | [github.com/jdk2pq/re-news-er](https://github.com/jdk2pq/re-news-er) | *A script to renew access to the NYTimes and Washington Post* | TypeScript, Puppeteer

**Did UVA Win?** | [diduvawin.com](http://diduvawin.com) | *An open-source webapp to track UVA football and basketball* | TypeScript, the ESPN API

**OX Rush** | [ox-rush.onrender.com](http://ox-rush.onrender.com) | *A webapp to automate fraternity recruitment* | React, TypeScript, Postgres

## EDUCATION

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

**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

## SKILLS

**Proficient:** TypeScript, JavaScript, Vue, Angular, React, Playwright, Puppeteer, Vitest, Jest, Tailwind, UnoCSS, HTML/CSS, Vite, Webpack, GraphQL, REST, Node, Scala, Java, Docker, Git, Postgres, SQL, geospatial data visualization

**Familiar:** d3.js, Svelte, Python, cloud databases, Ruby on Rails, PHP, Apache Arrow, Apache Storm, Apache Kafka