

Virginia Knight

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Scottsdale, AZ

[Portfolio](#)

[Linkedin](#)

[GitHub](#)

SKILLS

JavaScript, React, Redux, HTML, CSS, Ruby, Ruby on Rails, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Heroku, SAS, AWS S3

PROJECTS

Quizard

[live site](#) | [github](#)

JavaScript, React / Redux, HTML / CSS, Express, MongoDB, Node.js, WebSocket

An interactive web application that allows users to create and play quiz games with their friends

- Employed WebSocket connections to allow users to participate in real-time live game sessions and live chat
- Spearheaded development as Front End Lead by developing, structuring, and styling form inputs and static pages as well as providing support and advice to fellow team members on front end technologies

Pinteresque

[live site](#) | [github](#)

JavaScript, React / Redux, Ruby on Rails, PostgreSQL, HTML / CSS, AWS S3, Webpack

A full-stack clone of the inspiration-sharing website Pinterest

- Harnessed the unidirectional state management of Redux to simplify React components and directly handle data for form inputs and form submissions for users, Pins, boards, and follows
- Connected the Rails back end to AWS S3 for media storage and organization while maintaining content security with AWS IAM

Popcorn

[live site](#) | [github](#)

JavaScript, Canvas, HTML / CSS, Webpack

A single-page browser app in which players align puzzle pieces in a grid to pop pieces of popcorn

- Leveraged vanilla JavaScript and DOM manipulation to handle all visual effects in addition to timed, round-based game logic
- Implemented a queue data structure to perform breadth-first node traversal when determining the status of puzzle pieces within the game grid

EXPERIENCE

Statistical Programmer | June 2018 - July 2021

Precision for Medicine

- Utilized the statistical software suite SAS to efficiently create and validate data models and various statistical summaries for pharmaceutical clinical trial data
- Contributed to the creation of statistical analyses for over 30 clinical trials while averaging completion times between 1/4th and 1/8th of the time quoted to the client
- Served as a lead programmer for six clinical trials by discussing the study logistics with clients, managing a team of programmers' workloads, and overseeing the progression of the studies
- Worked extensively to develop efficient programming techniques for the Biostatistics department, including taking part in a committee to validate useful code snippets

EDUCATION

App Academy | January 2022 | New York, NY

Immersive software development course with focus on full stack web development

San Diego State University | May 2018 | San Diego, CA

College of Sciences, Bachelor of Science, Statistics