David Russell

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🎓 Education

University of Central Oklahoma
B.S. Computer Science

2019 – 2022
Edmond, OK

⚗ Projects

Organizational App | JavaScript, CSS, React.js, Node.js, Express.js, Passport.js, MySQL

> Developed a web app that allows users to organize and outline projects through interactive note cards
> Designed a responsive user interface using React.js to display and interact with the authentication form, project list, and project cards
> Built a REST API using Express.js to handle authentication with reCAPTCHA, Passport.js, and the MySQL database as well as CRUD operations within the MySQL database using the Passport.js token for authorization
> Deployed using an automated shell script executed by a daily cron job on a self-hosted Ubuntu server which pulls from the production branch of the GitHub repository and rebuilds the app before restarting the PM2 process that serves the subdomain configured within Nginx and proxied through Cloudflare

Online Multiplayer App | Flutter, Firebase

> Developed a real-time multiplayer re-imagining of twenty questions that scales without a lobby player limit
> Designed the app's user interface and game loop using Flutter
> Managed concurrency control within the Firestore database using callback methods within document listeners
> Implemented authentication using the Firebase project and authorization using Firestore rules
> Deployed a web build to a self-hosted Ubuntu server running Nginx proxied through Cloudflare

Memorization App | JavaScript, CSS, React.js, Node.js, Express.js

> Developed a web app that helps users memorize textual information through typed input and repeated recollection
> Designed a responsive user interface using React.js to display textual input and interactive menus
> Leveraged React Components for DOM manipulation upon user interaction
> Leveraged React Hooks to dynamically display key textual information and recollection input controls based on timer status
> Deployed using an automated shell script executed by a daily cron job on a self-hosted Ubuntu server which pulls from the production branch of the GitHub repository and rebuilds the app before restarting the PM2 process that serves the subdomain configured within Nginx and proxied through Cloudflare

⚙ Skills

Languages JavaScript, TypeScript, Python, Java, C#, HTML, CSS
Databases MySQL, PostgreSQL
Cloud Providers Firebase (Google Cloud), Azure
Environments, Frameworks, and Services Node.js, Express.js, Passport.js, React.js, Angular, reCAPTCHA
Tools Git, Linux, Shell, PM2, Nginx, Crontab, VS Code