

Dylan Briar

Software Engineer

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TECHNICAL SKILLS

TypeScript · React · Node.js · Express · Jest · Vue.js · Vitest · JavaScript (ES6+) · SCSS · CSS · HTML5 · Redis · Redux · Bun · Vite · PostgreSQL · GraphQL · MongoDB · Docker · webpack · Netlify · AWS

EXPERIENCE

BuQL | Software Engineer

August 2023 - Present

- Built the product in Bun to introduce a server-side GraphQL caching solution to the Bun ecosystem, optimizing start and response times from the database or cache for better DX
- Initiated a component-structured frontend demo website leveraging React, enabling real-time, performant query selection and response visualization (e)
- Bolstered GraphQL route security by identifying rate and cost limitation solutions and introducing an optional sanitization middleware that verified queries against an allow list, reducing injection risk
- Introduced a Redis client for the superior DX and 5.25% smaller set/get latency, noting the syntactic differences as irrelevant given the scope, and established a Least Frequently Used cache invalidation policy
- Integrated Vite for its better build times, HMR speeds, and asset optimization that resulted in ~8% smaller bundle sizes for medium-sized applications without sacrificing the configuration to the extent needed
- Leveraged MongoDB for schema flexibility and potential horizontal scaling for more advanced demonstrations; MongoDB's focus on DX sustained development productivity
- Validated GraphQL routes via bun test, enabling custom match extensions for future iteration and maintaining a 28% smaller size compared to other frameworks, to uphold early bug detection and modern software design principles

ACC Honors Program, HEB, Abuelo's | Customer Service

June 2018 - August 2023

- Maintained a database solution to store and manage faculty contact information, optimizing data storage and retrieval
 - Integrated spreadsheets with mail merge software to automate mass email distribution to increase outreach efficiency
 - Utilized POS and mobile software to govern transactional data and generate inventory reports for data-driven decisions
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ENGINEERING PROJECTS

Cyber Stars

- Implemented PostgreSQL to store 33% of the structured and predictable data retrieved from the NASA API, taking into consideration the read-heavy nature of the app and the data's predictable types and schema structures
- Tested authentication with Vitest for its simplistic configuration and multithreaded approach that bettered the DX, while keeping the application at least 33% smaller in comparison to other testing frameworks

coolerCards

- Refined a middleware design pattern written using Express for HTTP/API endpoint requests, allowing for code modularity via router and controller files that kept debugging more straightforward
- Improved back-end test code coverage with Jest by 25%, enabling an expedited iteration process through the minimal configuration and the shortened feedback loops from parallel execution

The Stockyards

- Synthesized React components, such as the user portfolio and news display, and took advantage of the virtual DOM to provide efficient, browser-agnostic DOM manipulation, aligning the application with Flux architecture
 - Deployed Webpack to maintain flexibility for plug-in options and configuration in anticipation for iteration; the accommodation to ES6+ syntax made it particularly suitable as the Node.js application's module bundler
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EDUCATION

- Austin Community College | Public Relations, Honors
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PUBLIC TALKS & PUBLICATIONS

- *Docker Image Security: Six Important Strategies* | Austin JavaScript sponsored by Cloudflare
 - *CI/CD Security Tech Talk* | CaseBlink Tech Talks Series
 - *Looking for a GraphQL caching solution in Bun? It's time to BuQL Up* | Medium.com
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INTERESTS

Free soloing; getting second in fantasy football; rescheduling D&D campaigns to oblivion; taking too many pictures of our pets