

## Experience

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| <b>Software Engineer Contract</b>  | <b>TextQL</b>               | <b>2023</b>        |
| <ul style="list-style-type: none"><li>- Two week contract</li><li>- Implemented custom Haskell to TypeScript code generation for all API calls and migrated much of the frontend to use them</li><li>- Eliminated the entire class of frontend/backend API contract synchronization issues in the process</li><li>- Significantly improved developer productivity and confidence in making API contract changes</li></ul>  |                             |                    |
| <b>Software Engineer</b>   | <b>Academia.edu</b>         | <b>2022</b>        |
| <ul style="list-style-type: none"><li>- Worked on a recommendation system that suggested user-relevant works from a corpus of 40 million</li><li>- Led an effort to use larger N-grams when comparing articles using TF_IDF via ElasticSearch</li><li>- Wrote backend for a project to provide recommendations using a linear regression based off of around a dozen factors, including article age, historical popularity, and user on-site engagement that meaningfully improved click-through metrics in a/b testing</li><li>- Diagnosed and presented on a major production problem involving increased “continue reading” sends</li></ul> |                             |                    |
| <b>Associate Software Engineer</b>   | <b>Fidelity Investments</b> | <b>2019-2021</b>   |
| <ul style="list-style-type: none"><li>- Completed the LEAP 4 month program for industry programming. Accepted into the Financial Projections team</li><li>- Developed technical and methodology changes to Monte Carlo financial simulations</li><li>- Implemented necessary changes to methodology on a RESTful web service used by several front-end teams and calling several other services for relevant calculations</li><li>- Co-wrote system to canary-test all services on planning and advice platform</li></ul>  |                             |                    |
| <b>Teaching Fellow</b>   | <b>LaunchCode</b>           | <b>Summer 2017</b> |
| <b>Web Designer</b>  | <b>Contractor</b>           | <b>Summer 2016</b> |

## Education

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|--|-------------------------|-----------------------|
| <b>B.S. in Computer Science</b>  | <b>Carleton College</b> | <b>Graduated 2018</b> |
| <i>Classes of Note:</i> Natural Language Processing, Computer Security, Networking, Evolutionary Computation, Graphics, Advanced Algorithms, Operating Systems, Applied Regression Analysis  |                         |                       |
| <b>Senior Capstone</b>   |                         | <b>2017-2018</b>      |
| <ul style="list-style-type: none"><li>- Software for Northfield Union of Youth, a drop-in center for at-risk youth</li><li>- Built tracking software for a range of requirements including attendance, activity participation, and staff comments</li><li>- Provided information to design improvements and enable leadership to extend funding with statistical evidence of results</li></ul> |                         |                       |

## Skills/Interests

- *Programming Languages:* Ruby, Typescript, JavaScript, Python, Haskell, Elm, Java
- *Technologies:* PostgreSQL, SQLite, Nix/NixOS, ElasticSearch, Angular, AWS (EC2, Route 53, S3), HTMX, HTML/CSS/Less
- *Project Euler:* An online repository of computer science problems (80+ completed)
- *Personal Projects:* Projects of note include [a photo filter](#), [a clone of the mac app Quicksilver](#), a [Google Forms-style ranked choice voting website](#), and a [terminal UI for the forum software Discourse](#)