

Experience

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

Education

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

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](#)