git.winesj.com/Jack
winesj.com
rankedchoice.net

# Jack Wines

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914-334-1695
he/him

## Experience

**Software Engineer Contract** **TextQL** **2023**

- 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
- Two week contract

**Software Engineer** **Academia.edu** **2022**

- 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**

- 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

**B.S. in Computer Science** **Carleton College** **Graduated 2018**

*Classes of Note*: Natural Language Processing, Computer Security, Networking, Evolutionary Computation, Graphics, Advanced Algorithms, Operating Systems, Applied Regression Analysis

**Senior Capstone** **2017-2018**

- 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

- *Growing up*: Spent 15 years abroad in Moscow, Johannesburg, and Beijing. Traveled extensively
- *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 compression algorithms+pipelining library, a Google Forms-style ranked choice voting website, and a Discourse terminal UI