

# Jamie Macey

## Senior Software Engineer

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I am a results-oriented professional software developer with almost a decade of experience in senior and team-lead positions on a variety of web applications and services. I am seeking a position that will allow me to both leverage my strengths and experience as well as pull out of my comfort zone with new challenges.

### Experience

#### **Genesis Community Rehab** (<https://www.genesiscommunityrehab.com/>) Toronto, ON, Remote

*Software Consultant* 2018-2019

- Implemented 3rd party integrations with Quickbooks and provincial health claims portal to automate invoice data entry, saving about a man-week of effort monthly.

#### **VersaPay** (<http://www.versapay.com/>) Toronto, ON, Remote

*Senior Software Engineer* 2012-2018

- Maintained and developed new features for a funds-transfer web application as the business has pivoted to a B2B Accounts Receivable platform accepting millions in monthly payments from tens of thousands of businesses.
- Maintained and enhanced (solo) a PCI Level 1 certified credit card payments gateway with connections to 7 merchant processors in 3 countries and currencies, as well as ACH/EFT bank payment processing for 10+ banks.
- Participated in annual PCI audits as our engineering contact. Assessed and implemented mitigations for potential security vulnerabilities brought up by a static code analysis vendor.
- Led core infrastructure upgrades, from Rails 2.x on Ruby 1.9 to Rails 3.2 on Ruby 2.3.

#### **Avid Life Media** (<http://www.avidlifemedia.com/>) Toronto, ON, Remote

*Software Developer* 2008-2012

- Designed and led development of a dating platform in Merb that powered 12 individual sites with over 2 million users; later, with a specific focus on the billing section of the platform to support 5 payment gateways and process tens of thousands of monthly purchases.
- Planned and initiated a rearchitecting to a microservices architecture, extracting components as service apps with the goal of reducing effort required for a port to Rails 3.
- Developed a patch for DataMapper and later ActiveRecord to route read queries to a read-only database replica, allowing us to cheaply scale our databases horizontally for more performance.

#### **Quarter Turn** Toronto, ON

*Software Craftsman* 2007-2008

- Co-founded Quarter Turn, a software consulting company.
- Worked on a number of Rails-based web applications using agile methodologies.

#### **Bravenet Web Services** (<http://bravenet.com/>) Parksville, BC

*Software Developer* 2003-2007

- Spent two years maintaining a 100kloc PHP application, including addition of new modules.
- Successfully designed, developed and launched two internal pre-1.0 Ruby on Rails applications.
- Led development on a Rails-based adserving system handling over 200m impressions per month; was responsible for both backend and user-facing components; tackled scalability issues resulting in a near-100x throughput increase.

## Education

### University of Victoria

2003

*Bachelor of Science, Computer Science*

## Skills

- Veteran Ruby web developer, strong programming foundations, able to pick up new languages and environments quickly.
- 12 years Rails experience, as well as production deploys of Sinatra, Merb+DataMapper, and static websites generated by Jekyll and Middleman.
- Strong knowledge of OO design.
- Strong technical web design skills, including XHTML, CSS, and JavaScript.
- Knowledge of agile development practices, especially test-driven development and working in small frequent iterations.
- Strong knowledge of both Linux and MacOS as a software development environment.
- Experience with server provisioning technologies using Chef and Ansible, as well as limited exposure to the AWS ecosystem.

## Selected Code Samples

- Advent of Code solutions ([https://gitlab.com/jamie\\_ca/advent\\_of\\_code](https://gitlab.com/jamie_ca/advent_of_code)), Ruby and others  
Algorithmic data analysis puzzles, now a yearly tradition. Ruby solutions since inception, selected problems in other languages.
- Puzzle Game Solver ([https://gitlab.com/jamie\\_ca/squarelogic](https://gitlab.com/jamie_ca/squarelogic)), Ruby, ImageMagick, Tesseract  
Automated solver for a Sudoku-like game, using an OCR library to determine board state, a constraint-propagation library to generate the solution, and work-in-progress mouse/keyboard automation tools to actively solve the puzzle in the application window.
- Data Aggregation & Mapping ([https://gitlab.com/jamie\\_ca/househunter](https://gitlab.com/jamie_ca/househunter)), Ruby, Sinatra, SQLite, Heroku, Google Maps API  
A scratch-my-own-itch project to map local real estate listings, filter by size (beds/baths) and price, and flag rejected properties so they wouldn't reappear on future database updates.
- Credit Card Processor Gem (<https://github.com/jamie/vindicia>), Ruby, Savon  
SOAP wrapper for a credit card processor using Savon, with a few overrides to work around some quirks of their specific SOAP implementation. Used by a private ActiveMerchant gateway at a previous employer.
- Now Playing ([https://gitlab.com/jamie\\_ca/now\\_playing](https://gitlab.com/jamie_ca/now_playing)), Javascript, React, D3.js  
Movie times aggregator, as an initial project learning React.

## Hobbies

I blog infrequently at <http://blog.tracefunc.com/>.

When not enjoying time with my family, I occupy my time with strategy board games, video games, 3d printing, basic robotics, and curling.

## References

Available on request