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

VersaPay (http://www.versapay.com/)
Senior Software Engineer

Toronto, ON, Remote
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/)
Software Developer

Toronto, ON, Remote
2008-2012

- Led development (initially solo) of a dating platform in Merb that powered 12 individual sites with over 2 million users; spent a significant portion of continued development in the billing section of the platform to support 5 payment gateways and process tens of thousands of monthly purchases.
- Began 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
Software Craftsman

Toronto, ON
2007-2008

- Co-founded Quarter Turn, a software consulting company.
- Worked on a number of Rails-based web applications using agile methodologies.
- Took pride in providing solutions to clients with clean, extensible, well-tested, maintainable code.

Bravenet Web Services (http://bravenet.com/)
Software Developer

Parksville, BC
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
Bachelor of Science, Computer Science

2003

Skills	• Veteran Ruby web developer, strong programming foundations, able to pick up new languages and environments quickly.
	• 11 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://github.com/jamie/adventofcode) , 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) , 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) , 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 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://github.com/jamie/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 amateur astronomy.

References	Available on request