

John Carmichael

Phone: 339-222-3181

Email: jlcarmic@gmail.com

GitHub: jlcarmic

CodePen: jlcarmic

Experience

Senior Software Engineer, Maxwell Health

Sep 2016 - Present

- Develop second generation of company outbound integrations platform using: Python, AWS Lambda, MySQL, Docker and CloverETL
- Develop customer facing insurance product library using: NodeJS, TypeScript, MongoDB, ReactJS, CSS and Mustache templates
- Develop customer facing COBRA workflow for HR administrators using: PHP, MongoDB, ReactJS, CSS and SVG
- Provide code review, QA and mentoring to development team members

Senior Software Engineer, WeSpire

Aug 2014 - July 2016

- Developed features and fix issues for an enterprise SaaS, employee engagement platform using: Ruby/Rails, Sass, CoffeeScript, AWS Redshift and supporting technologies
- Managed tools for code quality, testing and deployment using: GitHub, CircleCI, Heroku, Hound, CodeClimate and supporting technologies
- Developed custom DevOps/ChatOps process and tools for development team using: NodeJS, Slack and supporting technologies
- Provided code review, QA and mentoring to development team members

Principal Software Developer, MassChallenge

Feb 2014 - June 2014

- Developed new features for the Accelerator software used to manage world's largest startup accelerator
- Defined, with steering committee, product roadmap and feature scope
- Documented key features of the software for use by end-users, partners and outsourced development resources
- Improved development and deployment processes to ensure continuous uptime and consistent user experience

Vice President of Engineering, Safelight Security Advisors

Sept 2012 - Feb 2014

Director of Product Development, Safelight Security Advisors

Oct 2010 - Sept 2012

- Defined product vision and go-to-market strategy
- Hired and trained internal development team to bring all courseware development in-house
- Created new processes and internal tools to reduce development timelines and integrate more seamlessly across the entire organization to reduce cost and time-to-market
- Architected new hosting service offering within the Amazon Cloud providing new revenue stream as well as increasing stickiness with customers
- Created the Customer Sponsorship program to identify and reflect market needs in core products through customer feedback in the development cycle

Project Manager for AIMS, MA Executive Office of Health and Human Services **Apr 2010 – Sept 2010**

- Provided project management and technical expertise to the Access and Identity Management Service
- Coordinated with application, server and middleware teams to ensure consistent uptime
- Created transition plan for upgrading from Sun-based architecture to Oracle-based architecture inline with Oracle's product roadmap

Senior Consultant, Cigital **Sept 2009 – Apr 2010**

- Delivered courses consisting of examples, demos, labs and lecture materials pertaining to application security best practices to testers and developers
- Researched current trends in application security to keep course content current and to develop new courses
- Performed threat analysis as well as created and executed security test plans for client applications
- Provided security and technology expertise as pre-sales support to Business Development Managers

Security Education Practice Lead, Security Innovation **Apr 2008 – Aug 2009**

Software Security Trainer/Engineer, Security Innovation **Jan 2007 – Apr 2008**

- Managed the security education practice within the services division including coordination of course delivery logistics, hiring and training of Security Trainers as well as continuous improvement of courseware offerings
- Assisted Account Management team with customer needs assessment; developed curriculum to meet those needs
- Created and delivered courses consisting of examples, demos, labs and lecture materials pertaining to application security best practices to testers and developers
- Performed threat analysis as well as created and executed security test plans for client applications
- Performed Payment Card Industry (PCI-DSS) assessments as a Qualified Security Assessor (QSA)
- Published articles and presented at conferences to establish company as an industry thought leader
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Staff Consultant/Technical Developer, Computer Sciences Corp **Aug 2004 – Jan 2007**

- Worked with a variety of clients in many different roles including:
 - Developer for a State Health and Human Services Office
 - Developed key components of large-scale enterprise service bus using several technologies (Java, XML, Tomcat, Weblogic and Red Hat Linux)
 - Assisted project architects with designing new functionality as well as improving and documenting the development process
 - Developer & Tester for a Healthcare EDI Network
 - Created, tested and deployed HIPAA X12 EDI transaction software using various technologies (C++, C#, SQL)
 - In response to quality of work, received a promotion from Application Associate to Technical Developer while working on this assignment
 - Data Migration Specialist for a Petroleum Corporation
 - Designed new logical model for department data storage and worked with internal tools to migrate data to new environment
 - Automated tasks within migration process to reduce time-to-migrate by 25%

Volunteer Experience

Instructor and Mentor, Startup Institute Boston

Oct 2013 - Present

- Serve as an instructor in the web development tracking teaching courses on Code Design, Building APIs with NodeJS and Web Application Security. Won Student's Choice Best Instructor Award Three Times.
- Serve as a mentor for a cross-functional project team building Rails applications for Safelight and WeSpire

Education

MS, Computer Information System Security

May 2008

Boston University

BS, Computer Science and Business Administration

May 2004

University of Vermont