

ZHIHAO JIA

4A Computer Science, University of Waterloo

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Skills

Languages

- HTML5
- CSS3 / Sass / SCSS - Bootstrap, Animate.css
- JavaScript / CoffeeScript - jQuery, jQuery UI, Bootstrap, Underscore.js, Mocha, Chai, Sinon.js, Konacha
- Ruby - Rails, RSpec, Konacha
- C / C++
- C# - .NET, ASP.NET
- Visual Basic - .NET, ASP.NET
- Scheme
- SQL

Tools

- Vim, TextWrangler, Visual Studio, Eclipse
- Git, Mercurial, SVN, VSS
- GIMP

Technologies

- Bash
- AJAX
- XML, JSON
- Apache, IIS
- MySQL, SQL Server, Oracle, DB2

Experience

Software Engineer Intern (Copious.com / Utah Street Labs)

Jan 2013 - Apr 2013

- Developed, fixed, and made enhancements to key features and components of **copious.com**, such as infinite scrolling, listing modals, custom typeaheads, and browser URL/history management.
- Implemented a system used to handle social content in comments, such as @mentions and #hashtags.
- Relevant technologies: Ruby, Rails, HTML, CSS, Sass, JS, CS, MySQL.

Web Developer (SkyWave Mobile Communications)

Apr 2012 - Aug 2012

- Added user administration, custom query building, and search management functionality to the internal issue management website.
- Enhanced and maintained the internal product admin, data tracking, and issue management websites.
- Researched third-party technologies for integration with company products.
- Relevant technologies: VB, ASP.NET, HTML, CSS, JS, Java, JSP, SQL Server, Apache.

Software Developer (SkyWave Mobile Communications)

Aug 2011 - Dec 2011

- Built a company-wide internal website used to track issues, tasks, enhancements, and customer queries from the ground up under minimal supervision.
- Designed, implemented, and deployed plugins for integrating multiple version-control systems with the internal issue-management system so as to improve productivity over all software development teams.
- Relevant technologies: C#, VB, .NET, ASP.NET, HTML, CSS, JS, SQL, IIS, SQL Server.

Technical Analyst (IBM Canada)

Jan 2011 - Apr 2011

- Conducted black box testing and ran simulations for the Cognos 8 BI product to identify software defects and establish software specifications for new enhancements.
- Designed business intelligence reports and modeled relational data to meet client business requirements.
- Wrote and published publicly-visible troubleshooting documentation for the IBM Cognos knowledge base.
- Provided technical support for live production, development, and test systems to resolve customer issues within designated time limits.

Software Quality Assurance Specialist (Ramsoft)

May 2010 - Aug 2010

- Conducted multiple levels of testing for software products, tools, and integrated third-party software.
- Tracked, recorded, and updated documentation for technical procedures and guidelines.
- Troubleshooted and resolved customer issues for the PowerServer RIS/PACS system.

Projects

ColorHack (JavaScript)

Sep 2012 - Present

- Provides a GUI for dynamically changing element colors and developing color schemes from the browser.
- Useful for quickly designing and prototyping web pages.

OS/161 (C + Assembly)

Sep 2012 - Dec 2012

- Group: Jasper Berrington, Tanpreet Grewal, Zhihao Jia.
- Simple operating system based on OS/161 from Harvard University.
- Added functionality include kernel synchronization mechanisms, system calls, exception handling, PID management, virtual and physical memory management (TLB, page loading, page replacement, etc.).

SimpleCanvas (HTML5 + JavaScript)

Apr 2012 - Aug 2012

- Web painting application using the HTML5 canvas element.
- Challenge: provide functionality similar to common paint apps using only one canvas element.
- Limited undo/redo functionality.

Education

Candidate for Bachelor of Computer Science (University of Waterloo)

In Progress

- Enrolled in the Honours Bioinformatics Option.
- **Completed:** Designing Functional Programs, Elementary Algorithm Design & Data Abstraction, Logic and Computation, Object-Oriented Software Development, Foundations of Sequential Programming, Introduction to Combinatorics, Data Structures and Data Management, Computer Organization and Design, Resources in Bioinformatics, Algorithms, Numerical Computation, Operating Systems.
- **Taking:** Introduction to Database Management, User Interfaces, Computer Networks, Computational Techniques in Biological Sequence Analysis.

Interests

- **StackOverflow:** HTML, CSS, JavaScript, jQuery, others.
- **Activities:** Music, Reading, Table Tennis, Go / Baduk / Weiqi, Starcraft 2, League of Legends, Om Nom Nom
- **Reading:** *Don't Make Me Think* - Steve Krug, *The Pragmatic Programmer* - Andrew Hunt & David Thomas.
- **Following:** Hacker News, TechCrunch, VentureBeat, Mashable!, Wired, Bits, GigaOM, Popular Science
- **Special interests:** UI / UX, front-end web development.