NICOLAS STEVEN MILLER

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RECENT SIDE PROJECTS

- Flour - A Scheme interpreter in Javascript with an in-browser REPL.
- Gwyon - A Tetris implementation in Javascript\HTML\CSS. See website for a playable instance. Source available on Github (see url above).

TECHNICAL SKILLS

Note: Computing fascinates me in general. As a developer I strive for breadth and depth of knowledge, clear communication and the ability to adapt and learn rapidly, not merely experience with particular languages or tools. What matters ultimately is shipping effective, tested, maintainable functionality regardless of the underlying technology.

- **Languages** - Most experienced in: Python, Javascript and Java. Past projects in: C, Scheme, Ruby, C++, PHP.
- **Testing** - Unit, Integration, Test-driven, Behavior-driven, UI automation. Tools of choice: xUnit (various), Jasmine, Selenium.
- **Web** - HTTP, JSON. Back-end: MVC, data modeling, ORM, query development. Front-end: jQuery, AJAX, CSS, templating.
- **Tools** - Enthusiastic user of Linux, Bash, Vim, Git and FOSS software in general.
- **Topics that interest me particularly** - graphics, audio, languages, algorithms.

EXPERIENCE

Full-stack Web Developer — FoundationIP, Minneapolis, MN — 9/11 - Present

- **Selected Contributions** - 1. Implemented persistent, per user customization of navigation UI which increased usability. 2. Rewrote existing password recovery mechanism to increase security. Implemented a password strength meter. 3. Implemented a feature to automate augmentation of existing domain objects with external data and documents.
- **Technologies** - Front-end: jQuery, CSS, JSP. Back-end: Java, Struts2, Spring, Hibernate, SQL Server, Tomcat. Test: jUnit, unitils, Selenium. Build: Maven.

Software Engineer — Boston Scientific, St. Paul, MN — 3/09 - 5/11

- **Selected Contributions** - 1. Wrote a test infrastructure module in Python to simplify and automate verification of requirements related to patient data storage.
- **Technologies** - Python, Automated Testing

Internships

- **Seagate** - 5/07 - 12/07 - Built a graphical CAD tool in Java for hard disk air bearing design.
- **Karges-Falconbridge** - Summer 2006 - Built an asset management system on a LAMP stack.

EDUCATION

University of Minnesota, Minneapolis, MN
Bachelor of Computer Engineering, August 2008

Undergraduate Honors Thesis - *Computer-Aided Color Appearance Design*
Developed a C++ OpenGL application that visualized trends in automotive coating color space data. Wrote a shader-based application that modeled metallic paint surface reflection.