

# Neil Poulin

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GitHub: [github.com/Neilpoulin](https://github.com/Neilpoulin)

[www.neilpoulin.com](http://www.neilpoulin.com)

## Education

**University of Michigan**, Ann Arbor, MI

*Bachelor of Science in Engineering*, Materials Science and Engineering, May 2010

*Minor*, Biophysics

## Coursework

Programming; Structure of Materials; Electronic, Magnetic and Optical Materials; Polymeric Materials; Composite Materials; Thermodynamics; Kinetics and Transport in Materials; Multivariable Calculus; Differential Equations; Organic Chemistry; Physics of Electromagnetics; Processing of Inorganic Materials; Biomaterials; Biophysics

## Experience

**IQ Navigator** Denver, CO

September 2012 to Present

Java Developer

- Designed and implemented a new “interviewing” module - Apache Camel, Fuse ESB, EclipseLink (ORM)
- Contingent workforce management software (SaaS) - Java, Wicket, Oracle
- Develop and add core functionality to the web application - Scrum/Agile, Rally
- Resolve Defects - JIRA

**Independent Projects** Denver, CO

May 2011 to Present

*Projects I have worked on outside of work or the classroom*

- Design, develop, and manage custom, interactive, single-page web applications for a variety of purposes: business tools, games, personal websites/blogs
- *Projects:*
  - Strum by Strum, LLC - Music learning website - create and share detailed song charts. Youtube integration. Google Cloud SQL database. Restful services via Jersey and Backbone.js. HTML Templating with Handlebars.js. Responsive design using Twitter Bootstrap.
  - Wine Cellar App - Web application to track wine inventory. Designed for mobile using jQuery Mobile and Backbone.js.
  - Mapping application to manage large sales territory - log in to get your data, see who's nearby, add notes, view history, plan routes. Save & persist data to Google Datastore. Used in the field on iPhone, android, and laptops. User validation via combination of JSP's and Java Servlets
  - Personal Website for a professional US Cyclist - custom tools for uploading articles, images, and races. Add many races to an interactive map (similar to the mapping tool above). Social plugins: Facebook, Twitter, Google+, LinkedIn, Strava
  - Online multiplayer board game: Single-page web-application using jQuery and Ajax calls to Java Servlets to update gamestate data. Chat in real-time with with a socket connection. Persist and manage data with Google Datastore, Memcache, and localStorage. Send email notifications

**Arborlight** Ann Arbor, Michigan

May 2010 to March 2011

Researcher/Engineer

- Created a new Microsoft Access database to track experiment parameters, perform calculations, and report results
- Developed software using LabView to control hardware components for a reel-to-reel system for fabricating organic photovoltaic devices
- Used MatLab to analyze spectral data to determine color temperature and Color Rendering Index of LED devices
- Designed parts for manufacture using AutoDesk Inventor 3D modeling CAD software.

## Software Development

Web Development		Tools & Servers	Desktop Development
<u>Client-Side</u> <ul style="list-style-type: none"><li>• HTML</li><li>• CSS &amp; LESS</li><li>• JavaScript<ul style="list-style-type: none"><li>- jQuery</li><li>- Twitter Bootstrap</li><li>- KineticJS</li></ul></li><li>• REST &amp; MV*<ul style="list-style-type: none"><li>- Backbone.js</li><li>- Handlebars.js</li><li>- jQuery Mobile</li></ul></li><li>• APIs<ul style="list-style-type: none"><li>- Google Maps</li><li>- twitter</li><li>- Facebook</li></ul></li></ul>	<u>Server-Side</u> <ul style="list-style-type: none"><li>• Java<ul style="list-style-type: none"><li>- Google App Engine</li><li>- Google CloudSQL</li><li>- AWS<ul style="list-style-type: none"><li>- EC2</li><li>- RDS</li></ul></li><li>- Apache Wicket (MVC)</li><li>- Oracle</li><li>- MySQL</li><li>- Fuse ESB</li><li>- Hibernate &amp; EclipseLink</li></ul></li><li>• JavaScript<ul style="list-style-type: none"><li>- NodeJS</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Git &amp; GitHub</li><li>• SVN</li><li>• Eclipse</li><li>• Chrome Dev Tools</li><li>• Jenkins</li><li>• Tomcat</li><li>• Jetty</li><li>• Weblogic</li><li>• Ant</li><li>• Maven</li></ul>	<ul style="list-style-type: none"><li>• Microsoft Access<ul style="list-style-type: none"><li>- SQL</li></ul></li><li>• LabView</li><li>• AutoDesk Inventor</li><li>• Microsoft Office Suite</li><li>• Mac OSX, Windows, iOS, Linux</li><li>• LabView</li></ul>

## Other

**Online Courses:** [www.coursera.com](https://www.coursera.com) “Start-up Engineering” (ongoing)

**Networking Events (Attending):** Denver Java User Group, Denver Tech Start-up Week, APIs and IPAs, No Fluff Just Stuff, GitHub DrinkUps

**Interests & Hobbies:** hockey (I play in a men's league), guitar (I take lessons), good beer & coffee, web design / entrepreneurship