

Neil Poulin

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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

- Develop and add core functionality to the web application
- Technologies: Wicket, JSF, JSP, Oracle, WebLogic, Ant, Maven, Java

Poulified Industries Kansas City, MO May 2011 to Present
Founder & Software Developer

- Design, develop, and manage custom, interactive, single-page web applications for a variety of purposes: business tools, games, personal websites/blogs
- Technologies: JavaScript, HTML5, CSS3, Java, Jetty Server, Google App Engine, Eclipse, numerous third-party APIs
- Projects - built for custom requirements, from scratch
 - 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 JavaServlets
 - 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. Receive email notifications via Javax mail.

LECO Corporation St. Joseph, MI March 2011 to Present
Sales Engineer

- Independently developed a location-based web application for viewing the location of, managing history of, and planning trips to hundreds of unique customer accounts hosted on my personal domain
- Managed a Microsoft SharePoint page for sharing documents with the entire sales force
- Provide applications assistance, service, and support directly to customers in wide variety of industries
- Prepare and give product-based presentations to customers

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.

BAE Systems Nashua, NH Summer 2009
Technical Intern

- Conducted research on metamaterials for micro-radio antenna applications
- Developed a design for a high dielectric based metamaterial to provide improved bandwidth of physically small patch antennas
- Determined a method of drilling sub-millimeter diameter holes in brittle Barium Titanate substrate

Software Development

Web Development		Tools	Desktop Development
Client-Side	Server-Side		
<ul style="list-style-type: none">• HTML5• CSS3• JavaScript<ul style="list-style-type: none">- jQuery- jQuery UI- KineticJS• Ajax• XML• JSON• APIs<ul style="list-style-type: none">- Google Maps- twitter- Facebook- Google+	<ul style="list-style-type: none">• Java<ul style="list-style-type: none">- HttpServlets- Web Services- Google App Engine- APIs<ul style="list-style-type: none">• Google (datastore, channel, memcache, blobstore, users, etc)• bit.ly• twitter• Gson• smart-json- Wicket- Oracle	<ul style="list-style-type: none">• Eclipse• Chrome Dev Tools• Firebug• YSlow• Jetty Web Server• SVN• Git & GitHub	<ul style="list-style-type: none">• Microsoft Access<ul style="list-style-type: none">- SQL• LabView• AutoDesk Inventor• Microsoft Office Suite• Mac OSX, Windows, iOS, Linux• LabView

Domain Management

www.neilpoulin.com – designer, developer, and manager of my personal domain
www.mapping.neilpoulin.com – location-based web application for displaying and managing customer information
www.benzawacki.com – developer of a web page for a professional cyclist (ongoing project)