

# NELSON DEV BURTON



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## SKILLS

**Programming:** SQL, Ruby, Python, Java, C++, Matlab, Hadoop (*Ranked in descending order of familiarity*)

**Tools:** Microsoft Office Suite, Windows and Unix Command Line, Photoshop, Illustrator, InDesign, Emacs

**Web:** HTML, CSS, JavaScript, Twitter Bootstrap, Google App Engine, Django, Ruby on Rails, Wordpress

**Informatica:** Power Center, Rulepoint for Complex Event Processing, Data Exchange, Data Transformation, Big Data Edition, Data Services

## EDUCATION

**University of Michigan** – Ann Arbor, MI 2009-2013

- BSE in Electrical Engineering, *Magna Cum Laude*
  - Emphasis in Signal Processing
  - Member, Eta Kappa Nu Honor Society
- BBA from Ross School of Business, *with Distinction*
  - Emphasis in Finance
  - Member, Michigan Interactive Investments
- GPA: 3.7/4.0

## INTERESTS

Designed, developed, and shipped iPhone App "Swoop" during final year at UofM. App enabled users to create and share unique photo voice combination.

Hobbies include cycling, woodworking, graphic and web design, photography, travel, tennis, reading, equities trading.

## PROFESSIONAL EXPERIENCE

**Eccella** - New York, NY

Software Consultant

June 2013 - Present

- Install, designed, and implemented information technology solutions at large enterprise clients using Informatica tools (clients listed below).
- **Bausch & Lomb** – London, England – Member of team that modernized entire European data exchange operation, resulting in automatic order fulfillment and acknowledgement processing.
- **Energy Information Administration DoE** – Washington, DC – Gathered requirements to customize data exchange solution for client.
- **Mass Mutual** – Springfield, MA – Highly praised by Eccella CEO for volunteering to help in sales process leading to software and services deal.
- **Swisscard** – Zurich, Switzerland – After multiple consultants failed to complete project, I proceeded to do so by bringing the delayed project back on schedule. Developed APIs to expose credit card data.
- **UMass Memorial Hospital System** – Worcester, MA – Upgraded event processing software, my quality of work achieved contract extension.

- In addition to actual client work, I developed the following initiatives:
  - Made business development presentation and pitched ideas to manager.
  - Led revamp of recruitment and interviewing process. Pipeline result was 40% increase in offers while 50% reduction in total interviews.

**RBC Capital Markets** - New York, NY

Quantitative Summer Analyst

June - Aug. 2012

- Built AJAX web application using jQuery, Django, and Twitter Bootstrap to display live risk profile and profit-loss of traders' accounts.
- Taught senior team members how to display their trade information using the framework I had developed upon early completion of the project.
- Programmed a python script to calculate prices of a variance swaps from options pricing tables. Used formulas from academic research reports.

**Goldman Sachs** - New York, NY

Summer Analyst

June - Aug. 2011

- Implemented performance measurement tools in trade processing system to discover existing choke points, monitor current system usage, and predict future capacity restraints.
- Conceived and implemented nine matrix reporting tools to analytically monitor message processing. Charts allow performance managers to see state of system easily and preempt potential problems.
- Project served as a model across firm for those wishing to easily add metric data collection tools and analysis framework into their software systems.

**Jet Propulsion Laboratory, NASA** - Pasadena, CA

Software Engineering Intern

June - Aug. 2010

- Designed and produced a graphic prototype for future NASA Curiosity website. To enhance public interest in space exploration, important design decisions included attention to social networking, a dynamic user interface, and an interactive experience. Discussed with and demonstrated for upper management who highly recommended my design.
- Addressed my section's need for public web accessibility by constructing a dynamic, editable web page with a custom interface using Drupal CMS. Allowed users without knowledge of web languages to add graphically rich content. Worked with section manager on tight deadline.