

TILO MITRA

4A Systems Design Engineering, University of Waterloo

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SKILLS SUMMARY

Technical Experience

- **Preferred Language:** JavaScript (preferably YUI3), NodeJS and PHP
- **Web Experience:** 5 years+ experience in HTML(5)/CSS(3), 3 years+ in JavaScript/Ajax/PHP
- **Libraries and Frameworks:** YUI3, jQuery, CodeIgniter, YQL, multiple APIs (Twitter, Facebook, etc.)
- **Databases and CMS:** MySQL, Wordpress, bits of MongoDB
- **Complimentary:** Strong knowledge DOM, Event-Driven JS, JSON, MVC Design Patterns, Git, Mobile web app performance, Scripting with Python

Soft Skills

- **Passionate about** creating scalable, user-friendly, accessible web applications
- Keen on taking initiative, facing new challenges and **making a difference**
- Able to effectively **work in a team** atmosphere and individually to meet project deadlines
- Exceptional **leadership skills** developed through taking on additional responsibility

WORK EXPERIENCE

Front-end Engineering Intern Yahoo!, Sunnyvale, CA, ON, Sept-Dec. 2010 & May-Aug. 2011

- Developed components for the YUI3 JS framework, specifically [Recordset](#) and [Panel](#); co-developed [Datatable](#), and various widget-level [extensions](#)
- Wrote code that shipped as part of YUI3.3.0 and YUI3.4.0 and is being leveraged on highly trafficked sites such as Mint, Yahoo!, Y! Mail, LinkedIn and more
- Presented a tech talk at YUIConf 2010 on [managing data in the browser](#)
- Gained terrific insight on how to make the next-generation of accessible web applications, using YUI3, YQL, Node.js, and other open-source technologies

Informative Web Practice Consultant, CGI, Toronto, ON, Jan-Apr. 2010

- Developed (front-end) and successfully launched the Toronto Board of Trade website (www.votetoronto2010.com) within a timeframe of 2 weeks
- Researched into the use of HTML5 elements to create accessible interfaces
- Interacted with web services (SOAP, REST) and learning how to create one from scratch
- Provided technical guidance on best web practices, and developmental assistance

PERSONAL PROJECTS & ACHIEVEMENTS

Winner of Yahoo! Summer Open Hack, Yahoo!, July 2011

- Conceived, designed and developed “Crictainment”, an HTML5 mobile web application that gathers cricket news, videos and photos and displays them in a curated manner
- Optimized the experience for the iPad, to the point where it feels as “native” as possible
- Architected in an MVC style using HTML5 APIs such as *Local Storage*, *Application Cache*, YUI3 widgets, and data gathered from YQL and Pipes
- Learned tips and tricks regarding mobile web app performance, especially on iOS devices

WiFi-enabled Home Sprinkler using Arduino & Python, 3rd Year Design Project, 2010

- Prototyped (in a group) a smart sprinkler that is able to determine how much to water based on real-time weather forecasts and predictions
- Wrote Python algorithm to fetch weather data and perform analysis of how much water to dispel
- Assisted in programming Arduino micro-controller to talk with software and water-pump
- Created a web application that can be used to schedule watering times online

3rd Place at Yahoo! HackU 2009, University of Waterloo, Oct. 2009

- Conceived, designed and developed the “uniWall” web application in only 24 hours – an online book-sharing application
- Scraped and manipulated large amounts of web data using YQL/JSON, interacted with the database using PHP, and developed UI using XHTML/CSS/JS

EDUCATION

Candidate for Bachelor of Applied Science, Systems Design Engineering, University of Waterloo, Waterloo, ON, Sept. 2007-Present

Relevant Courses: Introduction to Software Design, Data Structures and Algorithms with Java, Signals and Systems, Statistics and Probability, Digital Computation using C++