

# KARTIK TALWAR

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## TECHNICAL SKILLS

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<b>Languages</b>	—	Python, PHP, JavaScript/Node.js, Ruby, C, C++, Java, LabVIEW
<b>Databases</b>	—	MySQL, Firebase, Elasticsearch, Riak, MongoDB, SQLite, OracleDB
<b>Web</b>	—	GitHub, AWS, WordPress, [Facebook, Twitter, Twilio, Google] API
<b>Markup</b>	—	HTML, CSS, Markdown, JSON, XML, ERB, Puppet, L <sup>A</sup> T <sub>E</sub> X
<b>Tools</b>	—	Git, Vim, Sublime, Eclipse, Mathematica, MATLAB, Photoshop
<b>OS</b>	—	Windows, *nix, Mac, Android

## WORK EXPERIENCE

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<b>Production Director</b> , TEDxUW, <i>Waterloo</i>	Present
<ul style="list-style-type: none"><li>• Executing one of the most prestigious conferences in the community</li></ul>	
<b>API Developer</b> , University of Waterloo, <i>Waterloo</i>	Present
<ul style="list-style-type: none"><li>• Lead developer for the University of Waterloo API</li><li>• Maintainer of open source contributions and developer community</li></ul>	
<b>Teaching Assistant</b> , University of Waterloo, <i>Waterloo</i>	2013
<ul style="list-style-type: none"><li>• Assistant for Computational Physics under Dr. Chris O'Donovan</li><li>• Responsible for conducting tutorials, proctoring and assignment help</li></ul>	
<b>Infrastructure Software Developer</b> , Salesforce, <i>San Francisco</i>	2013
<ul style="list-style-type: none"><li>• Member of datacenter automation and infrastructure capacity planning</li><li>• Developed cluster monitoring, analysis and datacenter automation tools</li></ul>	
<b>Data Specialist</b> , University of Waterloo, <i>Waterloo</i>	2012
<ul style="list-style-type: none"><li>• Architected processes for accessing and opening data from University systems</li><li>• Merged existing internal and external APIs into a central location</li></ul>	
<b>Software Engineer</b> , Tagged, <i>San Francisco</i>	2012
<ul style="list-style-type: none"><li>• Worked on real-time logging infrastructure using logstash and elasticsearch</li><li>• Worked on tools to detect abnormal cluster behavior and hi5.com ETL</li></ul>	
<b>User Interface Engineer</b> , Bookneto, <i>Kitchener</i>	2011
<ul style="list-style-type: none"><li>• Defined the visual appeal of the site, in terms of UI and UX</li><li>• Designed and modeled the front-end user interface for the Analytics Platform</li></ul>	

## EXTRACURRICULARS

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<b>Vice President</b> , Undergraduate Physics Society	2011-Present
<ul style="list-style-type: none"><li>• Responsible for event planning, student outreach and bringing donuts to class</li><li>• Member of the Board of Directors at the Science Society</li></ul>	
<b>Velocity Incubator</b> , University of Waterloo	2012-2013
<ul style="list-style-type: none"><li>• Residence for student innovators, tech enthusiasts and entrepreneurs</li><li>• Helped startups in Communitech with product and software development</li></ul>	
<b>Vice President</b> , University of Waterloo Web Designers Club	2010-2011
<ul style="list-style-type: none"><li>• Planned and developed lectures and tutorials for novice developers on the basics of web design and development (HTML, CSS, PHP, SQL, WordPress)</li></ul>	
<b>Team Captain</b> , Emery CI FIRST Robotics Team	2007-2010
<ul style="list-style-type: none"><li>• Managed the mechanical, electrical, media and programming teams</li><li>• Led the team to 8th alliance captain position at Waterloo Regional</li></ul>	

## VOLUNTEER WORK

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| • <b>Regional Organizer</b> , PennApps/MHacks/HackMIT/Y-Hack/UofT Hacks | 2013-2014 |
| • <b>Technical Mentor</b> , San Francisco CoderDojo                     | 2012-2013 |
| • <b>Event Organizer</b> , TEDxWaterloo                                 | 2011      |
| • <b>Physics Representative</b> , University of Waterloo                | 2010      |
| • <b>Homecoming Volunteer</b> , University of Waterloo                  | 2010      |
| • <b>Math Peer Tutor</b> , Emery CI & Humber Summit Middle School       | 2009-2010 |
| • <b>Cyber-Science/Robotics Club Representative</b> , Emery CI          | 2008-2010 |
| • <b>Head Light Technician</b> , Emery CI                               | 2007-2010 |

## AWARDS

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- Best Leap Motion Hack - PennApps
- Winner - AngelHack Silicon Valley
- Top 10 - University of Toronto Hackathon
- Finalist - Greylock Hackfest
- Desktop Automation Winner - Salesforce DevOps Hackathon
- Launch Hackathon - Yammer Award Winner
- University of Waterloo Physics Alumni Award
- University of Waterloo Merit Scholarship
- Emery Collegiate Institute Merit Scholarship
- Robotics Scholarship and Community Leadership Scholarship
- Emery CI Honor Roll (All Semesters) & Ontario Scholars Award
- Finalist and a nominee for the Torys LLP Patent Award
- Bronze Level achiever for The Duke of Edinburgh Award
- Silver medal winner at the Apotex Innovators Fair
- Physics and Math Award for exemplary academic achievement

## PERSONAL PROJECTS

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- MessageThen** : A service created at MHacks that lets you schedule Facebook messages to be sent in the future via a chrome extension or a wildcard email service. <http://messagethen.com>
- Gmail.js** : Client-side API for Gmail. Github's trending repository and developer of the week, more than 1550 stars, #1 post on Hacker News and featured on JavaScript Weekly
- Context** : Adds custom cards to Google results to create a search experience optimized for you. Featured on TechCrunch <http://tcrn.ch/1gPMZRT> | <http://aol.it/1mLJmzz>
- Signal** : Lets you organize, edit and rewrite your inbox. Part of San Francisco HACKcelerator Incubator program. Featured on LifeHacker. <https://trysignal.com>
- Teleport** : JavaScript library that allows you to transfer DOM states between two devices. Finalist at University of Toronto Hackathon. <http://youtu.be/C0qZMfgwXJI>
- UW API** : Started as a personal project and was adopted by the University 2 months after launch. Contributor and organizer of <http://campusdata.org> worldwide initiative
- OKChrome** : Developed before Google Chrome's Voice Search, this extension lets you control your browser and add custom voice commands to websites. <http://youtu.be/6YC8bei2s24>
- Ned** : AI Bot for HipChat that adds features like to-dos, web searches, cluster status and server debugging to HipChat interface. Winner of Tagged's 2012 Hackathon

## EDUCATION

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| <b>University of Waterloo</b> , Candidate for Bachelor of Science                      | 2010-2015 |
| <i>Intent: Major in Physics with Astrophysics specialization, minor in Mathematics</i> |           |
| <i>Relevant Courses: Computational Physics, Astrophysics, Linear Algebra, Calculus</i> |           |