

KARTIK TALWAR

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TECHNICAL SKILLS

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

WORK EXPERIENCE

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

EXTRACURRICULARS

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

VOLUNTEER WORK

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

AWARDS

- 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
- 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

- 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

- University of Waterloo**, Candidate for Bachelor of Science 2010-2015
- Intent: Major in Physics with Astrophysics specialization, minor in Mathematics*
- Relevant Courses: Computational Physics, Astrophysics, Linear Algebra, Calculus*