KARTIK TALWAR

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TECHNICAL SKILLS

Languages	—	Python, PHP, JavaScript/Node.js, C, Ruby, Java, C++, 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, LaTeX
Tools	—	Git, Vim, Sublime, Eclipse, Putty, Mathematica, Photoshop, Office
OS	—	Windows, *nix, Mac, Android

WORK EXPERIENCE

API Developer, University of Waterloo, *San Francisco* — Present
- Lead developer for the University of Waterloo API
- Maintainer of open source contributions and developer community

Teaching Assistant, University of Waterloo, *Waterloo* — 2013
- Assistant for Computational Physics under Dr. Chris O'Donovan
- Responsible for conducting tutorials, proctoring and assignment help

Infrastructure Software Developer, Salesforce, *San Francisco* — 2013
- Member of datacenter automation and infrastructure capacity planning
- Developed cluster monitoring, analysis and datacenter automation tools

Data Specialist, University of Waterloo, *Waterloo* — 2012
- Architected processes for accessing and opening data from University systems
- Merged existing internal and external APIs into a central location

Software Engineer, Tagged, *San Francisco* — 2012
- Worked on real-time logging infrastructure using logstash and elasticsearch
- Worked on tools to detect abnormal cluster behavior

User Interface Engineer, Bookneto, *Kitchener* — 2011
- 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

Freelance Developer, Elance, *Toronto* — 2008-2011
- Specialized in WordPress development and social media integration

EXTRACURRICULARS

Vice President, Undergraduate Physics Society — 2011-Present
- 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
- 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
- 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
- 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**, TEDxUW — 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
- Winner of York University Olympics Robocode event

PERSONAL PROJECTS

Gmail.js	: Client-side API for Gmail. Github repository of the week, 1500+ 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://youtu.be/qz3Cw47JHes
Signal	: Lets you organize, edit and rewrite your inbox. Part of San Francisco HACKcelerator Incubator program. Over 2000 users. 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

Relevant Courses: *Computational Physics, Astrophysics, Linear Algebra, Calculus*