

# KARTIK TALWAR

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## TECHNICAL SKILLS

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**Languages** — Python, JavaScript/React.js/Node.js, PHP, Ruby, Go, C, C++, Java  
**Databases** — MySQL, PostgreSQL, Firebase, Elasticsearch, Riak, MongoDB  
**Markup** — HTML, CSS, Markdown, JSON/XML/ERB, Puppet, L<sup>A</sup>T<sub>E</sub>X

## WORK EXPERIENCE

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**Software Mentor**, Velocity Start, *Waterloo* Present  
• I talk, discuss and help students with software related projects/ideas across campus

**Co-Director**, Hack the North, *Waterloo* 2014-2016  
• Oversaw and planned the execution of Canada's largest hackathon

**API Developer**, University of Waterloo, *Waterloo* 2011-2016  
• Lead developer and creator of the University of Waterloo API

**Insight Engineer**, SV Angel, *San Francisco* 2014  
• Built internal tools to help optimize the investment process

**Production Director**, TEDxUW, *Waterloo* 2014  
• Responsible for event logistics, technical setup and video production

**Teaching Assistant**, University of Waterloo, *Waterloo* 2013  
• Computational Physics; Conducted tutorials and provided help with assignments

**Infrastructure Software Developer**, Salesforce, *San Francisco* 2013  
• Developed cluster monitoring, analysis and datacenter automation tools

**Software Engineer**, Tagged, *San Francisco* 2012  
• Worked on real-time logging infrastructure to detect abnormal cluster behavior

## EXTRACURRICULARS

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**Regional Organizer**, Various Hackathons 2013-2016  
**Velocity Resident**, University of Waterloo 2012-2016  
**President**, Undergraduate Physics Society 2011-2015  
**Technical Mentor**, CoderDojo SF 2012-2013  
**Vice President**, University of Waterloo Web Designers Club 2010-2011  
**Team Captain**, Emery CI FIRST Robotics Team 2007-2010

## AWARDS

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- Winner - A16Z Battle of the Hacks
- Runner-up - TechCrunch Disrupt SF Hackathon
- Best Leap Motion Hack - PennApps
- Winner - AngelHack Silicon Valley
- Finalist - Greylock Hackfest & UofT Hacks
- Launch Hackathon - Yammer Award Winner
- University of Waterloo Physics Alumni Award
- University of Waterloo Merit Scholarship

## EDUCATION

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**University of Waterloo**, Candidate for Bachelor of Science 2010-2016  
*Intent: Major in Physics with Astrophysics specialization; minor in Mathematics*  
*Relevant Courses: Computational Physics, Data Structures, Statistics, Linear Algebra*

## PERSONAL PROJECTS

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### React Native GridView

- UI library for React Native that allows you to display list items as a grid. Common examples include displaying collections like books, music etc. <http://npmjs.com/package/rn-grid-view>

### Gmail.js

- Client-side API for Gmail. More than 2000 stars on GitHub, #1 post on Hacker News and featured on JavaScript Weekly (then). Used by numerous startups!

### Interactive Markdown

- An abstraction layer that makes markdown files on GitHub interactive - allowing executing code written within the file. Runner-up at TechCrunch Disrupt SF Hackathon. <http://on.tcrn.ch/1/fFLc>

### WeeFeePhone

- A phone dialer replacement app built using react-native that automatically lets you switch between making the call via WiFi if the phone network is not available (or weak)

### Numbers.js

- One of the core contributor for the most advanced math library available for JavaScript/Node.js. Implemented statistical, matrix and probability related algorithms. <http://github.com/numbers>

### Moocast

- An android app that lets you livestream your entire phone online. It's like Periscope + Twitch for your phone. Winner of the A16Z Battle of the Hacks

### CampusData.org

- One of the founding members of the project with the goal of providing help and standardization for open-sourcing University data and APIs

### Nylas PHP Client

- Wrote the official PHP client library for the Nylas API (email/calendar/contacts). <https://nylas.com>

### Duolingo API

- An unofficial API for Duolingo.com (through reverse engineering network calls), that lets you interface with the website and access user profile and progress data in python.

### 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 (Boomerang but for Facebook)

### 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. <http://bit.ly/1P2YunQ>

### OK Chrome

- 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>

### Teleport

- JavaScript library that allows you to transfer DOM states between two devices. Finalist at University of Toronto Hackathon. <http://youtu.be/C0qZMfgwXJI>

### 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