



# MARK SCHUMACHER

ANDROID/WORDPRESS DEVELOPER

I'm looking to become a part of a team that doesn't need an alarm clock to wake up in the morning. A passion driven group that pours everything they have into their projects, where your role models are the people who sit next to you. A company comprised of elite individuals that are excited and infatuated to come to work. If this sounds like your company, call me.

## PROJECTS

### STASH SMART BAGS (6 months)

Check out the website I build describing it: [stashsmartbags.com](http://stashsmartbags.com)

A self-founded project with a small team of 3. Responsible for creating the android application, designing and developing the website landing page, embedded programming on backpack sensors, setting up web servers, designing and creating all images / mockups for website.

### AUTOMATING 3D PRINTED CANCER MOULDS (1.5 years)

Created a system that took the mri-scans of a patient and created a custom mould we could print out to deliver radiation to cancerous lesions of the skin. Main author on a SPIE medical imaging paper working with Cancer Care Ontario Research chair Dr. Fichtinger. The paper depicts the process of automating 3D-printed moulds and the mathematical algorithms required. More info at [3d.markshoe.com](http://3d.markshoe.com)

## HACKATHONS

### 1ST - 2014 MASTERCARD NXT HACKATHON

#### Team of 3 - T.A Labs

In 36 hours our team created a dynamic advertising product that utilized MasterCard's database and machine learning to predict and deliver custom ads to the user closest to the billboard.

### FINALISTS - QUEENS STARTUP SUMMIT

#### Team of 4 - Virtual Cadaver project

Inspired by my research at Queen's University, we built a virtual cadaver project that students could use to human moulds made out of ballistic gel. Medical students could simulate injections and cutting human tissue at a fraction of the cost of real cadavers. The software mimicked the internals of the human and projected them via a monitor to the student.

## WORK EXPERIENCE

### PYTHON PROGRAMMER - PERK LABS 2013 APR - 2015 APR

#### April 2013 - September 2015

Programmed mainly in python to automate the creation of 3D models.

Was required to efficiently design and implement 3D model manipulation algorithms on my own. Used git for ticketing, milestones to interact with my supervisors.

### TEACHING ASSISTANT - QUEENS UNIVERSITY (8 MONTHS)

#### September 2014 - April 2015

Computer science teaching assistant for 2 semesters in Java programming. I was responsible for assignment marking, test marking. Reported weekly to tutorial sessions where I was responsible for creating slides and delivering tutorial sessions to students.

## CONTACT

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## EDUCATION AND AWARDS

### QUEENS UNIVERSITY 2010- 2015

Bachelor of Computing (Honours) in Biomedical Computing

**4.0** Cumulative GPA over 4 years of study Transcripts attached on second page.

## NSERC AWARD RECIPIENT

Natural Sciences and Engineering award appointed for my work in automating 3D-printing cancer-delivery moulds, used by Kingston general hospital.

## TECHNICAL SKILLS

|           |                     |
|-----------|---------------------|
| JAVA      | ███████████████████ |
| WORDPRESS | ███████████████████ |
| HTML/CSS  | ███████████████████ |
| ANDROID   | ███████████████████ |
| PYTHON    | ███████████████████ |
| MYSQL     | ███████████████████ |
| PHOTOSHOP | ███████████████████ |

## PERSONAL SKILLS

|               |                     |
|---------------|---------------------|
| LEARNING      | ███████████████████ |
| CREATIVE WORK | ███████████████████ |
| LEADERSHIP    | ███████████████████ |
| DESIGN        | ███████████████████ |
| TEAM PLAYER   | ███████████████████ |

## HOBBIES

Longboarding, watching twitch.tv, playing hearthstone, browsing reddit, watching thug-life compilations, messing around with arduino's.