Samer Masterson

New York, NY
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Experience

Summer 2014 — **Hacker Schooler**, *Hacker School*, `hackerschool.com`.
- Three months of intensive, **self-directed** individual and collaborative programming.
- Built a Go **compiler**, a Todo **web app**, an article **recommendation engine**, a **Lisp interpreter**, and an **Emacs mode** for Godoc.
- Learned at an incredible pace and worked with incredibly smart people.

Fall 2013– Spring 2014 — **Founder & President**, *Mason GNU/Linux User Group*, `gmulug.com`.
- Founded the George Mason University GNU/Linux User Group.
- Planned **Linux**-related talks and events for audiences of 15-25 students every week.
- Held tutorials to teach students about **Linux** and Free Software tools.
- Organized a cryptoparty with one of the founders of the Tor project as a special guest.

Spring 2014 — **Computer Science Tutor**, *Self-employed*.
- Tutored students for introductory Computer Science courses.
- Taught **Python** and **Visual Basic**.

Fall 2013 — **Computer Science Teaching Assistant**, *George Mason University*.
- Helped Computer Science students learn **Python** in an introductory course.
- Held office hours in person and online.

Summer 2013 — **IT Intern**, *CACI International Inc*, Arlington, VA.
- Gathered business requirements for a procurement system.
- Mediated between customers, design team, and developers.

Projects

Chompy — **Go Compiler**, *Go*, `github.com/samertm/chompy`.
- **Lexes** and **parses** a subset of Go, without the use of lexer or parser generator tools.
- Currently writing the **semantic analysis** phase.

Snake MMO — **Networked Snake**, *Go, Javascript*, `github.com/samertm/snake-mmo`.
- Handles an arbitrary number of connections **concurrently** using channels and coroutines.
- Communicates with **Javascript** client using **websockets**.

Budget Nutrition — **Hackathon Project**, *Go, Python, Javascript*, `github.com/samertm/bitcamp`.
- Won **"Most Impactful Mobile Health App"** at Bitcamp.
- Optimizes your grocery list for nutrients based on a set amount of money a week.
- Sources data from Wolfram's API with **Python 3**. Web server written in **Go**.
- Teammate created the mobile-ready frontend using Bootstrap and Javascript.

Rekt-Post — **Article Recommendation Engine**, *Go*, `github.com/samertm/rekt-post`.
- Finds "Similar Links" and appends them the end of articles.
- Uses term frequency-inverse document frequency to rank articles.

Technical Skills

Languages	Go, Python, C, Emacs Lisp, Javascript, Java	Text Editor	Emacs
Github	`github.com/samertm`	Launchpad	`launchpad.net/~samertm`

Education

2012–2013 — **Computer Science and Mathematics coursework**, *George Mason University*.
Relevant Coursework: Introduction to Data Structures, Introduction to Object-Oriented Programming in **Java**, Discrete Mathematics, Calculus III, Differential Equations, Linear Algebra.
Honors: Dean's List Fall 2013, Spring 2014.