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**EDUCATION**

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**NORTHEASTERN UNIVERSITY**, Boston, MA Sept 2010 – Present

Candidate for a Bachelor of Science in Computer Science, Minor in Chinese, May 2015

Academic Distinction: GPA: 3.7/4.0, Honors Program, Dean's List, National Merit Scholarship

Related Courses: Systems and Networks, Network Fundamentals, Algorithms and Data,  
Programming Languages, Theory of Computation, Object-Oriented Design

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**TECHNICAL KNOWLEDGE**

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Languages: Python, C, Java, SQL, JavaScript

Software/Technologies: Django, Flask, EC2, Nginx, Gunicorn, SQLAlchemy, Alembic, Vim

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**TECHNICAL EXPERIENCE**

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**CO-FOUNDER, CTO, ENGINEER AND SYSTEMS ARCHITECT**, C.it Solutions, Boston, MA Feb 2013 – Present

- Secured \$10k Northeastern IDEA gap funding and \$60k from angel investors during seed round
- Design and implement system server infrastructure using Amazon EC2, Ubuntu, Nginx, and Gunicorn
- Administer email, server access, web presence, and server security for organization
- Create API and backend for user storage and interaction system using Python, JavaScript, and MySQL
- Actively participate in user interface design discussions and work closely with mobile engineers

**WEB ENGINEER**, InsightSquared, Cambridge, MA Jan 2013 – July 2013

- Built new reports for SaaS business intelligence product using Python/Django and JavaScript
- Wrote Python scripts that use third party REST and SOAP APIs to pull customer information
- Created advanced data model scripts to transform data from third party models to standardized model

**FORENSIC SOFTWARE ENGINEER**, Basis Technology, Cambridge, MA Jan 2012 – Oct 2012

- Participated in ground-up creation of new Java desktop application
- Developed new features for file system forensic analysis tools in C and C++
- Led discussions regarding new and improved features and implementation
- Pushed code multiple times daily to open source repository ([github.com/sleuthkit](https://github.com/sleuthkit))

**RESEARCH ASSISTANT**, Northeastern University, Boston, MA Jan 2013 – Apr 2013

- Sorted and analyzed massive Twitter data set to discover patterns in consensus dynamics
- Developed various Python scripts to automate analysis and report generation

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**LEADERSHIP EXPERIENCE**

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**FRESHMAN MENTOR AND CCIS FELLOW**, Northeastern University, Boston, MA June 2013 – Present

- Act as first point of contact for incoming students via in-person meetings, phone, and email
- Engage directly with students to assist with any difficulties adjusting to college life and co-op search

**TUTOR + MENTOR**, Youth Development Initiative Project, Boston, MA Sept 2010 – June 2013

- Volunteered as a tutor and mentor for underprivileged high school students in Boston
- Tutored students in math, science, and Chinese, and helped with college application process

**TUTOR + GRADER**, Northeastern University, Boston, MA Sept 2011 – Dec 2011

- Graded students' CS Fundamentals homework assignments on a weekly basis
- Held office hours twice weekly to assist with homework and test preparation

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**INTERESTS + ACTIVITIES**

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Chinese language | unicycling | volunteering | traveling | photography | hiking | bicycling

Bicycled 1500 miles from Portland, OR to San Diego, CA in July 2013

Hackathon project, Meet 'n' Eat, awarded "Best UX" at Beanpot Hackathon in January 2013

[github.com/richardfickling](https://github.com/richardfickling) | [flickr.com/photos/dick\\_fickling](https://www.flickr.com/photos/dick_fickling/)