NATHAN TARRH
FULL-STACK SOFTWARE ENGINEER

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Experience

Evernote
Software Engineer — Commerce

June 2014—present
Redwood City, CA

Develop and maintain accounting, reporting, payment methods, subscription handling, and user-facing web pages for all of Evernote's product verticals. Selected projects:

- A/B framework for subscription price testing across currencies
- Carrier billing integration, so Evernote users can pay on their mobile phone bill
- Internal service for generating, validating, and redeeming n-months-free promotions
- Migration from native checkout flow to embedded webviews for Evernote Market
- Service API for determining what products a user is eligible to purchase on a per-client basis

Tufts University
Research and Teaching Assistant

May 2011—May 2014
Medford, MA

Developed Facebook and Twitter integration for BlockyTalky (Raspberry Pi and LEGO robotics) bots at the Lab for Playful Computation.

Held weekly office hours and provided one-on-one instruction in Programming Languages and Web Programming courses. Topics covered in labs ranged from Git workflow and API development to lambda calculus and type inference.

Designed and developed curricula and workshops for engineering education in elementary schools under the Integrating Engineering and Literacy grant.

Harvey Mudd College
Research Assistant

June 2013—August 2013
Claremont, CA

Implemented context-free grammar parsing (CYK algorithm) to create higher-order parse trees for jazz songs under the Intelligent Music Software grant (NSF REU).

Optimized algorithmic matching for chord progressions with 100-150% speedup.

91.5 WMFO
Software Developer

February 2012—May 2013
Medford, MA

Developed web scraper to find lyrics and flag explicit tracks (digital catalog of ~250 thousand songs) using Python and the Beautiful Soup library.

Created taste profiler using playlist history and the Echo Nest API to recommend radio shows to listeners.

Administered servers for catalog, station wiki, and public website.

Education

Tufts University
Bachelor of Science in Computer Science

May 2014 (expected)
GPA: 3.52

Selected CS coursework: Algorithms, Data Structures, Machine Structure & Assembly Language Programming, Programming Languages, Advanced Functional Programming, Machine Learning and Data Mining, Web Programming, Human-Computer Interaction

Selected other coursework: Advanced Electronic and Digital Media, Entrepreneurial Leadership, Postmodernism and Film, Technological Tools for Learning

Technical

Languages:	Java	JavaScript
	C	Python
Frameworks:	Stripes	React
	Apache Thrift	RequireJS
Other:	Unix toolkit	Git