

Sasha Weiss (Alexander)

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EDUCATION

Northwestern University, McCormick School of Engineering - B.S./M.S., GPA 3.87/4.00

September 2014 - June 2018 (anticipated)

Notable courses: Design, Technology, and Research (DTR), Digital Forensics, Compiler Construction, Code Analysis and Transformation, Operating Systems, Programming Languages, Communication Networks, Statistical Language Modeling, Machine Learning, Artificial Intelligence, Human-Computer Interaction, Algorithms

EXPERIENCE

Braintree Payments, San Francisco — *Software Engineering Intern*

June 2017 - September 2017

- Automated SDK development by building a code generation tool with Go and Docker that consumes a REST API specification and produces fully-functional SDKs in Java, Python, Node.js, and Ruby.
- Prepared to open-source the SDK generator with extensive documentation, tutorials, and samples.
- Reduced load on our API gateway by helping build and roll out a caching layer for common repeated requests.

HERE Maps, Chicago — *Software Engineering Intern*

June 2016 - September 2016

- Reduced processing time of 2 beta products by 2x and 50x by developing and deploying a service to prevent redundant queries via custom indexing into map datastores, using Scala and Docker.

Northwestern University Delta Lab, Evanston — *Undergraduate Researcher*

March 2016 - January 2018

- Exploring context-aware microreminding techniques for supporting long-term behavior change.
- Evaluating microreminding principles through iterative deployment of prototype iOS reminder systems, built with Swift and Firebase.
- Communicating novel findings to broad audiences via preparation of a manuscript submitted to ACM CHI 2018 (chi2018.acm.org), available upon request.

Northwestern University EECS Department, Evanston — *Undergraduate Teaching Assistant*

January 2016 - Present

- Teaching software development principles in C++, Python, and Racket to 400+ students/quarter in tutorial sessions and office hours.

LANGUAGES AND TOOLS

Proficient

Python, Rust, C++

Unix, Git, Vim, tmux

Familiar

Swift (iOS), Go, HTML/CSS/JavaScript

Docker, Firebase, Rake, Cargo, Gulp

PROJECTS

itree (Rust): an interactive version of the ``tree`` utility. On Homebrew!

Syncterm (Rust): a library for networked, synchronized CLI apps. On crates.io!

Rocky (TypeScript): a networked, heuristic-based AI for playing Parcheesi.

Bracket Jumper (TypeScript): a VSCode extension allowing easy bracket-based navigation. 3300+ installs, community interaction via Github.

Shoutkey 2.0 (Golang): a rebuild of the now-defunct shoutkey.com tool

ACTIVITIES AND INTERESTS

- Student theater: building sets and supporting designers for student-written productions.
- Ballet, French (conversational, Canadian accent), dairy-based desserts, dogs, Star Wars.