# Sasha Weiss (Alexander)

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## EDUCATION

### Northwestern University, McCormick School of Engineering, B.S. and M.S. in Computer Science

June 2018, Magna Cum Laude (GPA 3.87)

*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

➜ Led an independent research project exploring context-aware microreminding techniques for supporting long-term behavior change.
➜ Evaluated microreminding principles through iterative deployment of prototype iOS reminder systems, built with Swift and Firebase.

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

January 2016 - June 2018

➜ Taught 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.