

MITCHELL FRIEDMAN

+1 (415) 589 -1020 – mitchfriedman5@gmail.com – www.mitchfriedman.me – <https://github.com/mitchfriedman>

EDUCATION

Graduated B.Comp with Distinction (Graduated: 2017) | University of Guelph

Teaching assistant - CIS*2750

- Developed “Gold” program for assignments in collaboration with auto-grading script
- Act as liaison between professor and students by instructing labs and office hours

University of Copenhagen (Fall 2016) | Copenhagen, Denmark

WORK EXPERIENCE

Twilio San Francisco - March 2018 - present

Software Engineer 2 - Cloud Orchestration Runtime Team

- Presented at “When Software Fails” meetup on how Twilio does Automated Microservice Remediation at Cloud Scale with Lazarus, a system developed and maintained by my team that has prevented over 800 pages in 2017.

Twilio San Francisco - May 2017 - March 2018

Software Engineer - Cloud Orchestration Runtime Team

- Designed, implemented and documented a system for dynamic traffic routing through our service discovery system allowing HTTP header based routing, logical test environments, or an entire private customer stack
- Maintainer of a service that de-provisions unused instances in our cloud infrastructure. Added new features to improve resiliency and decrease operating expenses of the Twilio Platform without incident, saving costs on the order of \$10,000 per week across all of our environments

Twilio San Francisco - Summer 2016

Software Engineering Intern - Cloud Orchestration Team

- Implemented automated workflows for preemptively remediating host failures that AWS would cause through Scheduled Events. Prevented hundreds of potential incidents and engineer pages since deployed in production

Twilio San Francisco - Summer 2015

Software Engineering Intern - API Team

- Implemented a new public API to allow partners to use internal services
- Contributed to a transpiler to convert json files into code in multiple target languages to generate the official Twilio helper libraries

Street Contxt Toronto - Summer 2014

Software Engineering Intern - Full Stack Developer

- Developed load testing tool to simulate web-hook requests from Sendgrid

SELECTED PERSONAL PROJECTS

Siphon | <https://github.com/mitchfriedman/siphon>

- Implemented a web service with a redis-backed queue for easily creating tasks for asynchronous processing

Mozilla Firefox Developer Tools Contributions

- Patched a bug in the Firefox Web IDE causing saves in vim mode made with the :w binding to not be processed
- Designed and implemented a jump-to-function definition in the web console by using the command+click shortcut

Airship at the Helm! | <https://play.google.com/store/apps/details?id=com.mitch.flyship>

- A 2D infinite scroller with procedural levels and enemies with 6000+ downloads
- Developed an entity-component game engine that asynchronously loads assets defined in XML files, a custom camera and tile-map system, and designed for maximum developer flexibility