

# Milo Turner

Available Jul-Dec, 2019

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## Education

**Northeastern University**, Boston MA

**Khoury College of Computer Sciences**

Candidate for Bachelor of Science in Computer Science

Expected May, 2020

**GPA:** 3.61/4.0

**Honors:** Dean's List (Jan 2017–Apr 2018)

**Activities:** NU Hacks (Club Treasurer, Spring 2018)

**Courses:** Computer Systems, Embedded Design, Algorithms & Data, Compiler Design, Software Development, Programming Languages

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## Skills

### Languages:

OCaml, Haskell, Python, C++,  
JavaScript (ES6), Rust

### Software:

Git, Linux, Emacs, L<sup>A</sup>T<sub>E</sub>X, Docker,  
React, Gitlab CI, Redis

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## Work Experience

**Software Engineering Intern**, Kumu Networks, Sunnyvale CA

*Jul–Dec, 2018*

- Developed internal software in Python for bootstrapping and stress-testing hardware devices.
- Worked closely with test team to design SQL database that meets the needs of many internal tools.
- Set up integration services for building and packaging FPGA images and the Linux kernel.
- Maintained React Native app used by customers to interface with backend REST API's.

**Research Assistant**, Northeastern University Programming Research Lab, Boston MA

*May–Aug, 2017; May–Jun, 2018*

- Collaborated with the *Turnstile* team on a framework for implementing linear type systems.
- Implemented module system using advanced metaprogramming techniques.
- Contributed bug fixes and new features to the programming language *Hackett*.

**Fundamentals of Computer Science Tutor**, Northeastern University, Boston MA

*Sep–Dec, 2017*

- Mentored honors students on problem solving techniques and program design practices.
- Graded and provided feedback on weekly homework assignments.
- Led special-topic lab sessions on metaprogramming in lisp (Racket).

**Firmware Engineering Intern**, Empire Gardens LLC, Makawao HI

*May–Aug, 2016*

- Implemented HTTP server running on microcontroller firmware, for remotely monitoring sensors.
- Modified open-source wifi firmware to simplify I<sup>2</sup>C protocol.
- Analyzed experimental data to calibrate pH, heat, and voltage sensors.

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## Projects & Interests

**Nanocaml PPX** Created preprocessor extension for OCaml that vastly reduces the boilerplate required to implement so-called “nanopass” compilers, which traverse syntax-trees dozens of times.

**Agda** Learning the *Agda* programming language and theorem prover, by implementing results from programming language theory and contributing to the open source standard library.