

# Preston Carpenter

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## EDUCATION

**Northeastern University** | Boston, MA

*Candidate for a Bachelor of Science in Computer Science*

College of Computer and Information Sciences

Relevant Courses: Object-Orientated Design, Computer Systems, Programming Languages,  
Networks and Distributed Systems, Algorithms and Data, Systems Security

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September 2014 – Present  
Expected graduation May 2019

## COMPUTER KNOWLEDGE

**Languages:** Python, Rust, C, C++, Java, C#, Javascript, HTML, CSS, Bash

**Technologies:** Linux, Wayland, Git, Meson, Bazel, Flask, Postgres, Vi, Emacs

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## EXPERIENCE

**Google** | Montreal, QC

*Software Developer Intern*

August 2018 - November 2018

- Implemented removing unwanted, force-installed extensions in the Chrome Cleanup Tool, a program that secures millions of Chrome installs on Windows computers silently every week
- Expanded reporting metrics and updated privacy policy to facilitate unwanted extension fingerprinting

**Microsoft** | Redmond, WA

*Software Engineer Intern*

May 2018 – July 2018

- Developed a SKU document analyzer and reporting tool for Azure's hardware engineers
- Collaborated with other teams to standardize external OEM and internal datacenter documents for automation
- Streamlined the configuration program for a boot loader used in datacenters to be more user friendly

**Intuit** | San Diego, CA

*Software Engineer Co-op*

July 2017 – December 2017

- Backend developer on “machine learning as a service” product that powers Mint and Intuit Turbo data insights
- Eliminated manual deployment and testing by setting up automated continuous integration and deployment
- Won the internal “Codechella” hackathon by extending the intranet website to include skills and project search

**Kinto Care** | Boston, MA

*Full Stack Engineer Co-op*

July 2016 – January 2017

- Developed flagship cross-platform phone app using Javascript with React and Cordova
- Integrated and expanded back-end API powered by Flask and Postgres
- Contributed to key design decisions through service research and weekly sprint meetings (Agile)

**Beechwood Software** | Boston, MA

*Software Engineer Intern*

January 2017 – July 2017

November 2015 – July 2016

- Contributed C++ code to the open-source IoT (Internet of Things) Alljoyn framework in collaboration with the Allseen Alliance and Linux Foundation
  - Developed smoothing algorithms to calculate distance between a wide range of different quality bluetooth devices
  - Assembled and tested the prototype presented at CES in Las Vegas using Raspberry Pi and Nest thermostats
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## PROJECTS

**Way Cooler (Wayland Window Manager)**

January 2016 – Present

- 2nd most popular tiling Wayland window manager with 5,000+ downloads and 1,800+ stars on Github
- Adapting the popular wlroots Wayland framework to be memory safe using Rust
- Programmable interface to virtually everything from embedded Lua and D-Bus interface

**AutoWikiaBot (Reddit bot)**

June – August 2015

- Developed a Reddit bot in Python to post summaries of Wikia articles that other users linked
  - Configured and managed a server running Linux/Debian hosting the bot remotely using SSH
  - Adapted a popular Python Wikipedia library to work for Wikia links
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## INTERESTS

Contributing to OSS, collecting tea, playing rogue-like