

Preston Carpenter

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EDUCATION

Northeastern University | Boston, MA

September 2014 – May 2019

Bachelor of Science in Computer Science

Relevant Courses: Compilers, Computer Systems, Programming Languages,
Networks and Distributed Systems, Algorithms and Data, Systems Security

COMPUTER KNOWLEDGE

Languages: Python, C, Go, Rust, C++, Bash, Lua, Java

Technologies: AWS, NGINX, systemd, Git, Meson, Bazel, Protobuf, gRPC, Wayland, Postgres, Docker, Kubernetes

EXPERIENCE

Amazon | Seattle, WA

April 2020 - Present

Software Engineer

- Writing Python and Rust for Linux Bakery team

Starry | Boston, MA

February 2019 - April 2020

System Software Engineer

- Wrote Rust and C++ firmware for embedded devices that power Starry internet
- Implemented backbone fiber network fail-over with Python and networkd
- Designed and produced SSH-based remote device support system for technicians, using Rust and gRPC

Google | Montreal, QC

August 2018 - November 2018

Software Developer Intern

- 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
- Collaborated with other engineers at a Chrome security conference and offered my knowledge of Rust to discussions
- Expanded reporting metrics and updated privacy policy to facilitate unwanted extension fingerprinting

Microsoft | Redmond, WA

May 2018 – July 2018

Software Engineer Intern

- Developed a SKU document analyzer and reporting tool for Azure's hardware engineers in C# and HTML
- 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

July 2017 – December 2017

Software Engineer Co-op

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

Beechwood Software | Boston, MA

January 2017 – July 2017

Software Engineer Intern

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 Pis and Nest thermostats
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PROJECTS

Way Cooler (Wayland Window Manager)

- Tiling wayland window manager with 6,000+ downloads and 2,000+ stars on Github
- Implemented a programmable interface using embedded Lua to extend a basic compositor core
- Originally written in Rust, later rewritten in C

AutoWikiaBot (Reddit bot)

- 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