

# Elliot Wasem

Software Engineer

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📺 [elliott-wasem](https://www.youtube.com/channel/UC13333333333333333333)

## Objective

Secure a full-time position as a software engineer or software developer starting in late Summer 2020.

## Education

**Bachelors of Science, Computer Science**, Stevens Institute of Technology, *Hoboken, NJ*

May, 2020

**GPA** — 3.6

- **Relevant courses:** Algorithms, Data Structures, Database Management Systems, Agile Methods, Concurrent Programming, Operating Systems, Web Programming, Advanced Programming in UNIX, Compiler Design, Systems Administration
- **Senior Design, Computer Science, first place:** Along with my team, created machine learning computer vision model for a shipping solution by Zebra Technologies.
- **Upsilon Pi Epsilon**, member: International Honor Society for the Computing and Information Disciplines

## Skills

**Programming:** C, C++, C#, .NET, Python, Erlang, Java, Rust, Bash, JavaScript, Ocaml

**Web & Cloud:** AWS, GCloud, MySQL, Docker, HTML5, CSS

**Misc. Tech:** UNIX, Git, Linux, Windows, Trello, Emacs, L<sup>A</sup>T<sub>E</sub>X, VSCode

## Experience

**Software Engineer, DexGroup, Remote**

June 2020 — Current

- Designed and implemented human-computer interfaces for Amazon warehouses and facilities
- Worked with Ignition software to create visual elements and connect them to systems for the purpose of monitoring status and operation of various machines and devices.

**Software Engineer, DexterityDB, Hoboken, NJ**

Apr 2018 — May 2020

- Used Rust programming language to develop database storage engine, with most work done on a virtual filesystem.
- Reduced memory footprint of program by eliminating unnecessary memory allocation and usage.
- Designed and created Linux server systems to run custom continuous integration tools written in Bash, Python, and R to provide on-demand binaries and running statistics as development progressed.
- Implemented testing scripts to accelerate generation of data as the product was developed, cutting need for manual generation.
- Handled DevOps tasks relating to our server system, providing expertise where others lacked in-depth understanding.

**Teaching Assistant, Stevens Institute of Technology Hoboken, NJ**

Aug 2018 — May 2020

- Assistant for courses Algorithms, Concurrent Programming, Database Management Systems, Intro to Web Development
- Created new assignments for students to nurture an understanding of the material
- Assisted students in gaining an understanding for the topics taught in class

**Undergraduate Research Assistant, Stevens Institute of Technology, Hoboken, NJ**

Sep 2018 — Dec 2018

- Explored the possibility of extending eBPF from the network interfaces down to storage mediums.
- Setup and maintained Ubuntu servers both for the head professor and for other researchers.

**Wireless Team Lead, MarketSource, Target Mobile Princeton, NJ**

Sep 2015 — Nov 2016

- Managed new and existing accounts for Verizon Wireless, AT&T, Sprint, and Comcast XFINITY.
- Maintained relations with Target management to ensure effective sales flow, fraud prevention, and organization.
- Organized and maintained Target Mobile's inventory and assets.

## Projects

**Secure Server Setup (Linux Server)**

Jun 2019 — Current

- Problem: Needed remote access to a piece of hardware, but client did not want the machine to be exposed to the outside world.
- Solution: Created an SSH server on a Linux system with limited access, and hardened it against outside attack, providing a secure method to connect to the client's hardware.

**Virtual Filesystem, DexterityDB Hoboken, NJ (Rust)**

May 2018 — Aug 2018

- Designed and implemented a virtual filesystem in Rust.
- Ensured that it was the minimum needed to work with the database software so as to run lean and efficiently.