

# Elliot Wasem

Software Engineer

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📁 [elliottwasem.xyz](http://elliottwasem.xyz)

🌐 [elliott-wasem](https://elliott-wasem.github.io)

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## 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,  $\LaTeX$ , 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

**Zebra SmartPack**, Senior Design, Stevens Institute of Tech. *Hoboken, NJ* (C++, Python, Bash) August 2019 — May 2020

- Worked together with senior design team over the course of 2 semesters.
- Designed a machine learning model to identify and categorize types of shipping containers.
- Used 2D and 3D computer vision technologies to determine position and orientation of shipping containers in relation to camera.
- Created secure methods of connecting to an insecure system remotely through SSH.

**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.