

Elliot Wasem

Software Engineer

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📱 [elliott-wasem](https://www.github.com/elliott-wasem)

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++, Python, Erlang, Java, Rust, Bash, JavaScript, Ocaml

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

Misc. Tech: UNIX, Git, Linux, Windows, Trello, Emacs, L^AT_EX, 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.