

# Elliot Wasem

Software Engineer

Nutley, NJ, USA

☎ 1-609-498-2128

✉ [elliottbielwasem@gmail.com](mailto:elliottbielwasem@gmail.com)

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

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## Education

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

May, 2020

**GPA** – 3.5

- TA – Algorithms, Concurrent Programming, Database Management Systems, Intro to Web Development
- Member of Upsilon Pi Epsilon: International Honor Society for the Computing and Information Disciplines

## Skills

**Programming:** C, C++, Python, Erlang, Java, Rust, Bash, JavaScript

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

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

## Experience

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

Apr 2018 – Current

- 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 – Current

- 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
- Graded students' understanding of the material on assignments and quizzes

**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.

**TinyChat, Concurrent Programming, Stevens Institute of Tech**, *Hoboken, NJ* (Erlang)

Jun 2019 – Sep 2019

- Designed and setup groundwork for assignment for students in the Fall 2019 semester.
- Assignment is to create an IRC chat application, implemented completely in Erlang.
- Purpose of assignment is to give students a full understanding of message passing.

**Personal Password Manager** *Hoboken, NJ* (Rust)

Mar 2019 – Jul 2019

- Password manager implemented in Rust.
- Uses Rofi as a graphical user interface.
- Stores passwords locally in a mathematically secure manner, all locked behind a master password.

**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.
- Reduced the file descriptors needed open from upwards of a million down to just a small handful.