

Elliot Wasem

Software Engineer

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Education

2017 – 2020

B.S. Computer Science, *Stevens Institute of Technology*, Hoboken, NJ.

GPA – 3.49

- 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

Experience

April 2018 – Current

Software Engineer, *DexterityDB*, Hoboken, NJ.

- Developed various parts of database storage engine, with most work done on a virtual filesystem.
- Designed and built continuous integration tools such as automated build servers, benchmark servers, and various automation scripts to streamline daily workflow.
- Implemented testing scripts to speed up the generation of data as our product was further developed.
- Served as the company's Linux expert and server administrator.

September 2018 –
December 2018

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

- 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.

September 2015 –
November 2016

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

- 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

DexterityDB

Virtual Filesystem, *Rust*.

- Designed and implemented a virtual filesystem implemented in Rust.
- Ensured that it was the minimum needed to work with our database software so as to run lean and efficiently.
- This project reduced the file descriptors we needed open from upwards of a million down to just a small handful.

Personal

Personal Password Manager, *Rust*.

- Password manager implemented in Rust.
- Uses Rofi as a graphical user interface.
- Allows locally storing passwords in a secure manner, all locked behind a master password.
- The beauty of this password manager is that, even with in-depth knowledge of how it works, it is impossible to read the password file without knowing the master password.

Personal

Personal Website, *HTML*, *CSS*, *JavaScript*.

- My personal website tries to let the user experience the computer the way I do on a daily basis: through the commandline.
- Implemented in “vanilla” JavaScript, it provides a handful of custom-implemented commands to let the user browse my credentials in a terminal fashion.

Academic, Teaching
Assistant, CS511

TinyChat, *Erlang*.

- 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.
- The project is designed such that it would only take a few lines more of code to turn this into a fully distributed, centralized messaging application. However for the purpose of this assignment, it was designed so that processes were all locally running on a single computer.

Skills

Languages

C/C++, Python, Erlang, Java, Rust, Bash, JavaScript

Web & Cloud

HTML5, CSS, MySQL, Docker, GCloud

Misc. Tech

Git, Linux, Trello, Emacs, L^AT_EX, VSCode