Elliot Wasem
Software Engineer

Nutley, NJ, USA
1-609-498-2128
elliotbielwasem@gmail.com
elliotwasem.xyz
elliot-wasem
elliot-wasem

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, LaTeX, VSCode