

Elliot Wasem

Software Engineer

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

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Education

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

2017 – 2020

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

Skills

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

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

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

Experience

Teaching Assistant, Stevens Institute of Technology *Hoboken, NJ*

August 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 gain an understanding for the topics taught in class
- Graded students' understanding of the material on assignments and quizzes

Software Engineer, DexterityDB, *Hoboken, NJ*

April 2018 – Current

- 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 the product was further developed.
- Served as the company's Linux expert and server administrator.

Undergraduate Research Assistant, Stevens Institute of Technology, Hoboken, NJ September 2018 – December 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*

September 2015 – November 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

Personal Website *Hoboken, NJ* (HTML, CSS, JavaScript)

June 2019 – Current

- Implemented in “vanilla” JavaScript, it provides a handful of custom-implemented commands to let the user browse my credentials in a terminal fashion.
- Designed to be a unique experience that speaks to my strengths using computers

TinyChat, Concurrent Programming, Stevens Institute of Tech, *Hoboken, NJ* (Erlang) June 2019 – September 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)

March 2019 – July 2019

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

Virtual Filesystem, DexterityDB *Hoboken, NJ* (Rust)

May 2018 – August 2018

- Designed and implemented a virtual filesystem implemented 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.