Elliot Wasem

Software Engineer

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Objective

Secure a full-time position as a software engineer or software developer starting in Summer 2020.

Education

Bachelors of Science, Computer Science, Stevens Institute of Technology, *Hoboken, NJ*   May, 2020
GPA – *3.57*
- **TA**: Algorithms, Concurrent Programming, Database Management Systems, Intro to Web Development
- **Relevant courses**: Algorithms, Data Structures, Database Management Systems, Agile Methods, Concurrent Programming, Operating Systems, Web Programming, Advanced Programming in UNIX, Compiler Design, Systems Administration
- **Upsilon Pi Epsilon**, member: International Honor Society for the Computing and Information Disciplines

Skills

Programming: C, C++, Python, Erlang, Java, Rust, Bash, JavaScript
Web & Cloud: AWS, GCloud, MySQL, Docker, HTML5, CSS
Misc. Tech: UNIX, Git, Linux, Windows, Trello, Emacs, LaTeX, 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

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 to create an IRC chat application, implemented completely in Erlang.

Personal Password Manager *Hoboken, NJ* (Rust)   Mar 2019 – Jul 2019
- Password manager implemented in Rust.

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.