Elliot Wasem

Software Engineer

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Education

Bachelors of Science, Computer Science, Stevens Institute of Technology, *Hoboken, NJ*　　　　　May, 2020
Castle Point Terrace, Hoboken, NJ 07030

GPA — *3.6*
- **Relevant courses**: Algorithms, Data Structures, Database Management Systems, Agile Methods, Concurrent Programming, Operating Systems, Web Programming, Advanced Programming in UNIX, Compiler Design, Systems Administration
- **Senior Design, Computer Science**, *first place*: Along with my team, created machine learning computer vision model for a shipping solution by Zebra Technologies.
- **Upsilon Pi Epsilon**, member: International Honor Society for the Computing and Information Disciplines

Transfer Credit, Mercer County Community College, *West Windsor, NJ*　　　　　Jan 2015 — Dec 2016
1200 Old Trenton Rd, West Windsor Township, NJ 08550
GPA — *3.7*

Skills

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

Experience

Software Engineer, DexGroup, LLC, *Remote*　　　　　June 2020 — Current
81 Arden Blvd, West Hempstead, NY 11552
- Designed and implemented human-computer interfaces for Amazon warehouses and facilities.
- Worked with Ignition software to create visual elements and connect them to systems for the purpose of monitoring status and operation of various machines and devices.

Software Engineer, DexterityDB, *Hoboken, NJ*　　　　　Apr 2018 — May 2020
81 Arden Blvd, West Hempstead, NY 11552
- 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 — May 2020
Castle Point Terrace, Hoboken, NJ 07030
- 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
Castle Point Terrace, Hoboken, NJ 07030
- 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
11700 Great Oaks Way, Alpharetta, GA 30022
- 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

Zebra SmartPack, Senior Design, Stevens Institute of Tech. *Hoboken, NJ* (C++, Python, Bash)　　August 2019 — May 2020
- Worked together with senior design team over the course of 2 semesters.
- Designed a machine learning model to identify and categorize types of shipping containers.

- Used 2D and 3D computer vision technologies to determine position and orientation of shipping containers in relation to camera.
- Created secure methods of connecting to an insecure system remotely through SSH.

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.