

Eric Hegnes

Education

Drexel University **Bachelor of Science in Computer Science**, Philadelphia, PA,
Specialization: Data Structures & Algorithms, Operating Systems,
Anticipated Graduation: 2018.

Skills

Proficient in C, C++, Fortran, Rust, Python, Bash, L^AT_EX, Typescript, Javascript, HTML, CSS, Matlab, AWK
Experience in Haskell, Java, Lisp, SQL, x86_64 Assembly, MIPS Assembly
Operating Systems Linux Kernel (Gentoo, OpenWRT, Kali) & GNU Userspace, Android, Windows, Mac OSX
Software ViM, Git, Ansible, Node.js, Angular 2, Aircrack-ng, SNORT, Wireshark, Metasploit, Nmap, Curses, Docker, GIMP, Inkscape

Experience

2016–Present **Lead Full-stack Developer**, *Course Roots, Inc.*, Philadelphia, PA.
○ Rapidly prototyped a pilot solution using Angular 2
○ Managed and implemented all aspects of a full software solution
○ Designed a highly scalable backend and database schema
Summer of 2012, **Teaching Assistant**, *Carnegie Mellon University*, Pittsburgh, PA.
2013 ○ Designed a comprehensive programming curriculum
○ Taught Python and C to 25 students each summer

Programming Projects

2015–Present **linux-samus**, <https://github.com/raphael/linux-samus>.
Kernel and configuration repository for compatibility between Linux and the Google Chromebook Pixel (2015).
○ Privileged contributor due to valuable contributions
○ Provide real-time support via an Internet Relay Chat (IRC) channel
2014 **Servo**, <https://github.com/servo/servo>.
A modern, high-performance browser engine designed for application and embedded use.
○ Contributed to a large community-driven program written by Samsung and Mozilla
○ Learned a new, safe systems programming language (Rust) in order to contribute
2014–Present **Ambient Light Sensor Daemon**, <https://github.com/ehegnes/alsd>.
○ Provides the first solution for automatic backlight in Linux
○ Aims to be minimalistic and fast, written purely in standards-compliant C

Miscellaneous

President Drexel University Linux User Group Student Organization
Technology Chair Drexel University DragonHacks Student Organization
3rd Place 2016 IEEE SAC: Ethics Competition
Package Maintainer Maintains **exa** package for the NixOS package repository