

Donovan Ellison



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ABOUT

I am a PSU alumni with a passion for learning, always finding new ways to challenge myself.

My interests include high assurance software, low level programming, and data analysis. My honors thesis provides a case study of Habit, a functional language designed for low level programming.

To see some of my projects, visit <https://dvaneson.com/projects>

🎓 EDUCATION

Bachelor of Science in University Honors and Computer Science

Portland State University

Sep 2016 — Aug 2020

GPA: 3.73

📖 PUBLICATIONS

Functional Programming for Systems Software: Implementing Baremetal Programs in Habit

University Honors Theses

Sep 01, 2020

- Implemented a page table with context switching in C.
- Implemented part of a page table in a prototype of Habit.
- Enabled IA-32 paging and setup system calls in x86 Assembly

🧰 EXPERIENCE

Computer Science Tutor

Portland State University

Oct 2019 — Aug 2020

- Debugged students code in C, C++, Java, and x86 Assembly.
- Taught students how to use GDB.
- Explained Computer Science concepts such as data structures, discrete structures, and object oriented programming.

Software Engineer Intern

Akamai Technologies

Jan 2019 — Jun 2019

- Developed and maintained a data pipeline through AWS to track user metrics.
- Used and maintained Terraform configurations for the deployment of non-production code.

DevOps Intern

Comscore, Inc.

Jul 2018 — Dec 2018

- Developed testing framework for QA. Allowed QA to make tests using reusable predefined methods without needing any programming experience.
- Performed weekly deploys to production environments for developers. Ensured code worked as expected and all changes were properly documented.
- Maintained scripts that automate the deployment process.

Software Engineer Intern

XPO Logistics, Inc.

Jan 2018 — Jun 2018

- Developed an internal web app to automate the process of changing the weather alerts on the companies web page.

Software QA Intern

Janrain, Inc.

Jul 2017 — Dec 2017

- Built tests for developers to promote test-driven development with Behave.
- Used the selenium framework to create tests for a web app.

</> SKILLS

Agile Development

Git JIRA Scrum

Low Level Programming

C/C++ x86 Assembly

Baremetal Programming

Functional Programming

Haskell Habit

Data Science

Python Math

Machine Learning

Development Operations

Terraform Jenkins AWS

♥ INTERESTS

High Assurance Software

Software Verification

Functional Programming