Donovan Ellison

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in 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**

✏ WRITING

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

🏢 EMPLOYMENT

Computer Science Tutor
Portland State University   **Oct 2019 — Aug 2020**
Part-time tutoring for lower-division courses.
• 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 a web app to automate the process of changing the weather alerts on the companies web page. Previously had to email desired changes to developers and then deploy those changes to production.

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