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**

📖 THESIS

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 a testing framework for the QA team, allowing them to make tests using reusable predefined methods without needing any programming experience.
• Performed weekly deploys with Jenkins to production environments. Ensured code worked as expected and all changes were properly documented.
• Maintained Ruby scripts used for deployment.

Software Engineer Intern
XPO Logistics, Inc.   **Jan 2018 — Jun 2018**
• Developed a web app from scratch with React to automate weather alerts on the companies website.
• Managed an SQL database.
• Connected and made changes to the database with Java.

Software QA Intern
Janrain, Inc.   **Jul 2017 — Dec 2017**
• Wrote tests in Behave for features before they were developed to promoste test-driven development.
• Used the Selenium framework to test the interface of 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