

Donovan Ellison

✉ dvaneson@gmail.com

🏠 dvaneson.com

☎ 971-400-3011

in [Donovan Ellison](#)

🐙 [dvaneson](#)

EDUCATION

Bachelor of Science in
Computer Science, University Honors

Portland State University

GPA: **3.73**

Sep 2016 — Aug 2020

SKILLS

Programming: C/C++, Haskell, Python, and x86 Assembly

Technologies: EC2, GDB, Git, JIRA, Jenkins, S3, Selenium, and Terraform

THESIS

Functional Programming for Systems Software

Sep 21, 2020

University Honors Theses

Habit is a functional language specially designed for low-level programming. Habit aims to have the reliability and readability of a high-level language, while offering the memory management and efficiency of languages like C. In this thesis I provide a case study of Habit and discuss if it meets these goals.

- Implemented a page table in C and 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.

Software Engineer Intern, *Akamai Technologies*

Jan 2019 — Jun 2019

- Worked on an AWS data pipeline used for tracking user metrics.
- Maintained Terraform configurations for the deployment of non-production code.

DevOps Intern, *Comscore, Inc.*

Jul 2018 — Dec 2018

- Improved a testing framework for the QA team in C#.
- 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

- Designed and developed a web app from scratch with React.
- Managed an SQL database with Java.

Software QA Intern, *Janrain, Inc.*

Jul 2017 — Dec 2017

- Wrote tests in Behave for user stories prior to implementation to promote test-driven development.
- Used the Selenium framework to test the interface of a web app.