

# Donovan Ellison

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in [Donovan Ellison](#)

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## 🎓 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.