

# Michael D. Eden

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## ## EXPERIENCE

### **Tulip Interfaces** — *\_\_Software Engineer\_\_*

SEPTEMBER 2018 - PRESENT

Designed a CI to standardize builds for our IoT OS, deploy it, test it, and collect metrics. First IoT CI at Tulip. Designed a cross-platform Hardware Abstraction Layer to allow the Tulip stack to be ported to other devices.

### **Facebook** — *\_\_Software Intern\_\_*

MAY 2017 - AUGUST 2017

Built a continuous testing daemon to monitor server health in real time and optimized commonly-ran utilities to save **seven days of computer time per day**.

## ## EDUCATION

### **Georgia Institute of Technology**

AUGUST 2014 - AUGUST 2018

1. Bachelor of Science in Computer Science
2. GPA: 3.86 / 4.0 concentrating in Theory & AI, HackGT board member.

## ## PROJECTS

### **NixOS** — *\_\_Reproducible Cross-Compiled IoT OS & Appliance\_\_*

Contributions to upstream NixOS and a project to cross compile NixOS images to boot on ARM devices similar to Bitbake & Yocto. These OS images are fully configured at build time so no provisioning needs to be done.

### **Rust-Websocket** — *\_\_Rust Websocket Library\_\_*

A major contributor to the rust websocket library, which is used in many large projects such as Servo (Mozilla).

### **BitCore** — *\_\_BitPay's BitCoin Library\_\_*

Contributions to BitCore improving MongoDB performance and refactoring code into TypeScript.

### **Wunderhorn** — *\_\_JVM Formal Verifier\_\_*

A state-of-the-art Java and JVM program verifier that can formally verify assertions about your code.

### **KDE** — *\_\_The Kool Desktop Environment\_\_*

Contributions to the Plasma Mobile Dialer and small improvements to the desktop experience.

## ## TALKS

1. WECode, Introduction to Hacking IoT Cameras: <https://goo.gl/DWBvEF>
2. HackGT, Building a Multiplayer Online Game in Elixir: <https://tinyurl.com/y5g2bpq4>
3. Catalyst, STEM Education for Atlanta High Schools (Hardware): <https://tinyurl.com/yb6pk62t>

## ## LANGUAGES & FRAMEWORKS

1. Frameworks & Systems: **Linux, Docker, Yocto, Concourse (CI), Kubernetes, Systemd**
2. Languages: **Rust, Haskell, OCaml, C, C++, Javascript, BASH, Python, Nix, Ruby, Elm, Elixir**