

## EDUCATION

### The University of Texas at Austin

May 2019

B.S.E.E, Electrical & Computer Engineering – GPA: 3.58 / 4

Coursework: Data Structures, Algorithms, Embedded Systems (*completed*); Data Science Lab (*Spring 2018*)

Lead of Co-Lab Team, Longhorn Entrepreneurship Agency

## LANGUAGES AND TECHNOLOGIES

- Programming Languages -- Java, C++, C, (*Proficient*); Python (*Experienced*)
- Development Tools -- Git, Eclipse, Bash (*Experienced*)
- Systems Software -- Linux, Kernel Modules, PCIe Drivers, DPDK Drivers and Applications (*Experienced*)
- Embedded Systems -- ARM Assembly, Particle, Wiring (*Experienced*)
- Mobile -- Porter, iOS (*Novice*)
- Web Development -- Pelican (*Experienced*); BeautifulSoup, HTML (*Novice*)

## PROFESSIONAL EXPERIENCE

### Undergraduate Research Assistant, The University of Texas at Austin

(*Part-time*) August 2017 - Present

*Prof. John Griffin, Department of Finance, McCombs School of Business*

### Software Systems Engineering Intern, Dell EMC

May 2017 – August 2017

*Platform Technology and Architecture Team, Server Division, Office of the CTO.*

- Evaluated feasibility of DPDK framework (Linux Foundation project open-source API for fast packet processing in user-space) for use in Dell EMC server solution involving multiple Virtual Machines.
- Ported kernel-based PCIe device driver for custom FPGA device to the DPDK framework: **C, Linux.**
- Solved multiple problems related to migrating S/W infrastructure for custom FPGA device from kernel to user land.
- **Built working Proof of Concept** of two-way communication between systems utilizing different device drivers (kernel-based and DPDK-based).

### Venture Partner, Contrary Capital

August 2016 - Present

*Contrary Capital is a decentralized, university-focused venture capital fund.*

- Conducting due diligence (via market research, investment memos, etc.) to evaluate feasibility of various campus-borne startups as potential fund investments – corresponded with **23 startups and counting** since August 2016.
- Optimizing deal flow channels and strengthening fund brand on campus by establishing relationships with key players in local startup ecosystem – met with **9 startups in last month of Spring 2017**, vs 3 in first month of Fall 2016.

### Marketing Manager, Sup

May 2016 – August 2016

*Sup is a mobile application that finds friends who are nearby and available right now for social activities.*

- Grew total app installs from **5k to 10k in 3 months** via campaigns on Facebook Ads, Google AdWords – app had 5k installs in 1.5 years prior to my involvement.
- Set up automated marketing campaigns to hit short-term target of 15k total app installs by September 2016.
- Reduced average cost-per-app-install from \$1.93 (at 5k installs) to **\$0.60** (at 10k installs).

## PROJECTS

### Hotspotter

HackTX, Fall 2016

[devpost.com/software/hotspotter](https://devpost.com/software/hotspotter)

*HotSpotter helps geographically pinpoint the physical broadcast source of a WiFi network in the area.*

- Wrote firmware-level code for Particle Photon device to detect SSIDs and RSSIs of local WiFi networks: **Wiring, Particle.**
- Built rudimentary mobile app for user to read RSSI of selected network in real-time: **Porter, Particle Cloud API.**
- Placed **Top 10** out of 58 teams + won MLH Best Device Privacy Hack + won 1517 Keep Building Award.

### FoodJump

3 Day Startup, Fall 2015

*FoodJump delivers a random food dish at a flat rate on demand, whenever one cannot decide where to eat.*

- Built simple Squarespace website as MVP for product within 20 minutes of conception of idea (currently offline).
- Performed alpha-test on campus, made **\$50 in sales within 24 hours** of conception of idea.