SHAHID HUSSAIN NOWSHAD

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EDUCATION

The University of Texas at Austin **May 2019**

B.S.E.E, Electrical & Computer Engineering, May 2019. GPA: 3.58 / 4
Coursework: Data Structures, Algorithms, Embedded Systems *(completed)*; Data Mining, 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).

Investor, 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 Aug 2016.
- Establishing relationships with key players in local startup ecosystem to strengthen fund brand and optimize deal flow channels on campus – 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
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 solves the problem of not being able to decide where to head out for a meal.
- 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.