# SHAHID HUSSAIN NOWSHAD

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#### **EDUCATION**

#### The University of Texas at Austin

May 2019

B.S.E.E, Electrical & Computer Engineering – GPA: 3.5 / 4

Coursework: Data Structures, Algorithms, Data Science Laboratory, Digital Signal Processing, Operating Systems (upcoming) Member, Longhorn Entrepreneurship Agency

#### **LANGUAGES AND TECHNOLOGIES**

- Programming Languages: Python, Java, C++, C (Proficient)
- · Development Tools: Git, Bash
- Systems Software: Linux, Kernel Modules, PCle Drivers, DPDK Drivers and Applications
- Cloud Architecture, Microservices: Kubernetes, Docker
- Data Science, Machine Learning: Anaconda, Numpy, Scipy, Pandas, BeautifulSoup

#### **PROFESSIONAL EXPERIENCE**

#### **Software Engineering Intern, Dell EMC**

May 2018 - August 2018

Office of the CTO, Server and Infrastructure Systems.

• **Building Proof of Concept** to extend Kubernetes functionality with dynamic bare-metal cluster expansion/contraction based on workload-specific needs.

## Software Systems Engineering Intern, Dell EMC

May 2017 - August 2017

Office of the CTO, Server and Infrastructure Systems.

- Evaluated feasibility of DPDK framework (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 + S/W infrastructure for custom FPGA device to the DPDK framework in user land: C, Linux
- Built working Proof of Concept of two-way communication between systems utilizing separate device drivers.

## **Venture Partner, Contrary Capital**

August 2016 - Present

Contrary Capital is a decentralized venture capital fund making seed/pre-seed investments in university-born startups.

- Conducted due diligence (market, team, and product assessment) to evaluate ~30 startups and counting.
- Presented partnership meetings for 3 startups as potential investments, out of which fund invested in 1 company.

#### 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 (in 1.5 years prior) to 10k in 3 months via campaigns on Facebook Ads, Google AdWords.
- 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**

# **Predicting Movie Profitability**

Spring 2018

github.com/oupton/startup-ds

Predicting whether or not a movie will be profitable, with **0.86** AUC accuracy.

- · Built custom dataset derived from Kaggle dataset: BeautifulSoup, YouTube Data API, TMDb API, OMDb API.
- Experimented with Keras neural nets and XGBoost to build final model.

Read our blog post at oupton.github.io/startup-ds.

# Hotspotter github.com/shahidhn/hotspotter

HackTX, Fall 2016

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

- Wrote firmware 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.