Joshua Cristol

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Education

The University of Texas at Austin – Pursuing a B.S. in Computer Science — Expected Graduation: May 2018

The University of Texas at Austin – Pursuing a B.S. in Electrical and Computer Engineering — Expected Graduation: May 2018

Relevant Skills – Java, Scala, C/C++, Python, Arduino, RPi, Django, Flask, SQL, Docker, Tensorflow, GraphQL

Experience

Spredfast (Austin, TX) – Software Engineering Intern — Summer 2017

- Developed "dockerized" backend microservice that manages labeling of social media content on Spredfast's major applications
- Helped identify

Verizon (New York, NY) – Network Engineering Intern — Summer 2015

- Explored and learned about the complex network of fibers and copper beneath the streets of Manhattan

Elbit Systems of America (Fort Worth, TX) – Software Engineering Intern — Summer 2014

- Designed a software test suite for a military grade display system sold by Elbit
- Contributed to a large and complex code infrastructure and was exposed to the team code review process

Projects

MortyDex (www.mortydex.com) – Python, Flask, Scrapy — Summer 2017

- Web Application that displays the many different versions of Morty from Rick and Morty in a pokedex fashion
- Scraped the data by using a Python tool called Scrapy which is an asynchronous tool and has a very easy set of rules to crawl the web with

Pintos Operating System – C — Spring 2016

- Implemented the Pintos operating system through a series of projects pertaining to the thread life cycle, the file system, virtual memory, and user programs over the course of my Operating Systems class

445L Hyperlapse Final Project – C — Fall 2015

- Built a fully functional 3 axis hyperlapse video controller and mechanical rig
- Designed a PCB that controlled 3 servos and powered an ARM microcontroller

Extracurricular Activities

Texas Guadaloop – Head of Electronics — Fall 2015 - Present

- Competing in the international Hyperloop pod competition sponsored by SpaceX and Elon Musk
- Won an Innovation Award from SpaceX for our pod Furiosa this summer after proving our pod in vacuum and on an open air test track
- Built an autonomous controls system using a NI Myrio and many I2C sensors to perform pod navigation and data collection

Beis Medrash Program — Fall 2014 - Present

- Program at UT Hillel to study Talmud

ACM (Association for Computing Machinery) – Member — Spring 2016 - Present

- Participate in outdoor excursions and frequently go to ACM campus meetings

Course Work

- Artificial Intelligence
- Neural Networks
- Graphics
- Software Engineering
- Operating Systems
- Networks and Security
- Advanced Embedded Systems Lab

Personal Activities

Sports (Soccer, Skateboarding, Snowboarding), Learning Hebrew, Chess, Cooking, Hiking (Green Belt, Barton Creek), Woodworking (Desks, Tables, Workbenches, Beds)