Carter Szukala

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github.com/cszukala

EDUCATION

Arizona State University

Computer Science, B.S.

2016-2020

Major GPA: 3.58

Cumulative GPA: 3.26

SKILLS

Languages

- C++, Java, Python, Bash Javascript, SQL

Technologies

- Unix, Agile, Git, AWS, EC2, Docker

Frameworks

- React.js, Node.js, Express, Django

ADDITIONAL INFO

Eagle Scout, Skydiver, Alto Sax

Soccer, Track, Football, Ultimate

Valedictorian

EXPERIENCE

Arizona State University & NASA | Systems Administrator

Tempe, AZ / May 2018 – Present

- Completed Psyche and Mars Rover 2020 Missions with full functionality and smooth launches using rover.py and MSL-web
- Designed and Implemented outward facing firewall for mission operations using pfsense with seamless failover
- Tested object storage data mirroring by using Ceph software
- Automated log tracking over two hundred devices using machine-learning algorithms along with Splunk and Elasticsearch

USAMCO | Software Developer Intern

Scottsdale, AZ / May 2017- August 2017

- Engineered and tested company's internal database for help tickets using MongoDB
- Developed a Node.js API for a legacy IBM mainframe

PROJECTS

General Dynamics | Senior Year Capstone

Tempe, AZ / January 2019- December 2019

- Pioneered the future multi-cloud projects for G.D. by designing a multi-cloud, vendor agnostic solution using AWS, Docker, Ansible, Equinix and Azure.
- Created 3 varying front-end designs of an application to be presented to key coast guard officials at General Dynamics with React, OpenLayers and Material UI by leading the front-end crew in a team of 6.
- Boosted productivity by 50% using Taiga, Agile team methods, and KANBAN

Plex Media Server | Bash & Docker & Express.js

February 2020 - Present

- Used Docker Containers to isolate media distribution and file management applications
- Setup Live environments for the steam game Ark: Survival evolved
- Hosted websites for University Frisbee team and personal media server

Smart City IoT Sensor | Arizona State interdisciplinary project

Tempe, AZ / January 2018- December 2018

- Designed and prototyped IoT sensor for solar generators
- Analyzed simulated data using machine learning algorithms
- Partnered with Universities in London and Australia to develop a sustainable system.