ZACHARY PEARSON

DEVOPS ENGINEER

CONTACT

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SKILLS

- Python
- Docker
- Kubernetes
- Golang
- Rust
- C++
- Redis
- gRPC
- AWS
- Javascript
- Angular
- Flutter
- RabbitMQ
- Argo CD
- Github Actions
- Azure

EDUCATION

BACHELOR OF SCIENCE
Physics
Hamline University
2013 - 2018
GPA - 3.5

CERTIFICATIONS

Certified Kubernetes Application Developer (CKAD) | November 2020 - Present

Certified Kubernetes Administrator (CKA) | October 2020 - Present

AWS Certified Solutions Architect - Associate (SAA) | December 2019 - Present

WORK EXPERIENCE

IMAGE SENSING SYSTEMS

DevOps Engineer | 2020 - Present
- Split inhouse monolithic Deep Learning codebase into containerized microservice ECS tasks on EC2 Auto Scaling Groups, as well as Fargate.
- Utilized Ansible and k3s to manage an Nvidia Jetson NX Kubernetes cluster
- Cross-compiled a Tensorflow Lite C++ application for Armv7 and Armv8
- Integrated Redis both as a database and message broker for real-time video storage and streaming

Software Engineer | 2018 - 2020
- Diagnosed legacy computer vision video algorithm issues with OpenCV
- Prototyped radar solutions in Python and later ported development to C++
- Lead Deep Learning initiative to analyze real-time video streaming

Software Engineer Intern | 2017 - 2018
- Created a Python application that streams and parses data from a 3rd party embedded radar unit to sync and fuse with the in-house embedded video unit
- Developed various software solutions and tools in Python for better organization and analysis of data, as well as for quickening data generation
- Analyzed and optimized various computer vision algorithms to run faster and use less memory in Python and C++