ERIC SOLOMON

FULLSTACK ENGINEER & DATA SCIENTIST

EXPERIENCES

2019 | 2018

Fullstack Engineer

Boid: Social Supercomputer — (remote)

- Design, implementation, and management of EOSIO-based system for managing a medium-scale distributed computing cluster
- Participation in startup funding proposal and business outreach processes

2018 | 2016

Graduate Research Assistant

Alfred Gessow Rotorcraft Center — College Park, Maryland

- Research into aerial robotics, computer vision, control systems, and artificial intelligence
- Design and implementation of small-scale, intelligent aerial vehicles using solely on-board processors
- Engineering management for undergraduate and graduate collaborators

SELECTED PROJECTS

2020

Linkerd

Linkerd

- Contributions to the Linkerd open-source software project
- Kubernetes-based service mesh & associated webapp
- https://linkerd.io , https://github.com/linkerd/linkerd2

2020

Personal projects

Personal

- React UI and Go/Python microservice designs for personal site and associated projects
- Fractalooze: Serverless fractal image compression
- Graphtools: General purpose graph with Go & websockets. UI with ReactJS for visualizing algorithms.
- AAAB: Serverless A/B test service & webapp for dataset source validation

2019 | 2018

BOID-EOS

Boid

- EOSIO-based system for managing Boid-associated computers and their computational contributions to the Boid distributed compute cluster
- Blockchain and API-endpoint components

2018

Metaltail Hybrid VTOL Vehicle

Alfred Gessow Rotorcraft Center

- Hybrid hover & forward-flight vehicle for use in urban environments
- Design and analysis of avionics and controls systems

2018 | 2016

Aerial Vehicle Control using Snapdragon Flight

Alfred Gessow Rotorcraft Center

- Autonomous micro-aerial system using only onboard components
- Modern techniques in computer vision, mapping, avionics, and controls

EDUCATION

2018 | 2016

M.Sc. in Aerospace Engineering

University of Maryland — College Park, Maryland

- Focus in aerial robotics
- GPA: 3.47

2016 | 2012

B.Sc. in Aerospace Engineering

University of Maryland — College Park, Maryland

- Minor in Computer Science
- GPA: 3.40

SOCIAL INFO

errcsool.com

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SKILLS

Web design
Serverless
Microservices
Javascript
Go
HTML5
CSS3 & SCSS
ReactJS
Gatsby & NextJS
GraphQL
REST
MongoDB
SQL

Data science
Machine learning & AI
Control theory
Computer vision
Python
C++ (incl C++11 & C++20)
Tensorflow

Container orchestration
Service mesh
Docker & Kubernetes
Linkerd
Blockchain

Git
Linux
Bash

This résumé was wholly typeset with HTML/CSS — see git.io/vVSYL

PUBLICATIONS

2019 "Reinforcement Learning Control for Quadrotors using Snapdragon Flight". E. Solomon, A. Shastry, V. Hrishikeshevan, I. Chopra. 8th Biennial Technical Meeting on VTOL Unmanned Aircraft Systems and Autonomy. Mesa, AZ. Jan 2019

2018 "Autonomous Quadrotor Control and Navigation with Snapdragon Flight". E. Solomon, V. Hrishikeshevan, I. Chopra. 74th American Helicopter Society International Forum. Phoenix, AZ. May 2018

2017 "Visual Odometry Onboard a Micro Air Vehicle Using Snapdragon Flight". E. Solomon, C. Vorwald, V. Hrishikeshevan, I. Chopra. 7th American Helicopter Society Technical Meeting on VTOL Unmanned Aircraft Systems and Autonomy. Mesa, AZ. Jan 2017.