ERIC SOLOMON

FULLSTACK ENGINEER & DATA SCIENTIST

💼 EXPERIENCES

2018 | 2019

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

2016 | 2018

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

Personal projects
Personal

- React UI design for personal site and associated projects
- Fractalooze: Serverless fractal image compression
- Graphtools: General purpose graph and UI for visualizing algorithms
- Concierge: Multi-project management and routing built with Go, GraphQL, MongoDB, and Envoyproxy
- AAAB: A/B test service for dataset source validation

2018 | 2019

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

2016 | 2018

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

2016 | 2018

M.Sc. in Aerospace Engineering
University of Maryland   📍 College Park, Maryland

2012 | 2016

B.Sc. in Aerospace Engineering
University of Maryland   📍 College Park, Maryland

Minor in Computer Science

📰 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.

PORTFOLIO

SOCIAL INFO

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SKILLS

Javascript
Go
React & Gatsby
GraphQL
MongoDB
SQL
HTML5
CSS3 & SCSS

Python
C++ (incl C++11 & C++20)
Scientific Computing
Machine Learning
Artificial Intelligence
Control Theory
Tensorflow

Container Orchestration
Docker & Kubernetes
Cryptocurrency

Bash
Linux
Git