ERIC SOLOMON

FULLSTACK ENGINEER & TECHNOLOGY GENERALIST

EXPERIENCES

2020

Fullstack Engineer

Upstack ⟨remote⟩

- · Work dynamically and autonomously with independent clients to create fullstack applications in NodeJS, ReactJS,
- · Maintain ownership of and accountability for continuous integration pipeline

2019 2018

Fullstack Engineer

Boid: Social Supercomputer

(remote)

- · Design, implement, and manage blockchain-based system to run a medium-scale distributed computing cluster
- · Participate in startup funding proposal and business outreach processes

2018 2016

Graduate Research Assistant

Alfred Gessow Rotorcraft Center

♥ College Park, Maryland

- · Create state-of-art, resource-constrained aerial robotics systems, including computer vision, controls, and artificial intelligence
- · Manage engineering pipeline for undergraduate, graduate, and third-party collaborators including the U.S. military
- Publish papers, write contract proposals, and speak at technical conferences



SELECTED PROJECTS

2020

GatsbvJS

GatsbyJS

- · Contribute to the GatsbyJS static-site generator
- Document & demonstrate asynchronous plugin usage
- Update to image components to maintain HTML validation

2020

Linkerd

Linkerd

- · Contribute to the Linkerd service mesh
- · Incorporate RSA-based PKI certifications
- · Validate compatibility of Kubernetes service accounts

2020

Personal projects

- · Create serverless and microservice-based projects with modern techniques using ReactJS, Typescript, NodeJS, Go, Python, and containers
- Fractalooze: Compress images up to 15x compression rate using fractals. Integrate with JAMstack-based display and
- · Graphtools: Create a general purpose graph for visualizing and testing algorithms using Go, websockets, and ReactJS
- · AAAB: Create a serverless webapp for dataset source validation to experiment with quantum computing using IBM Qiskit, Python, and ReactJS

2019 2018

BOID-EOS

Roid

- · Manage the effectiveness of BOID teams, which sell personal computing power and compete for prizes using EOSIO and World Community Grid platforms for secure, distributed, redundant cluster computing
- · Create API endpoints based on the EOSIO public blockchain and Boid-run, customer-facing NodeJS servers

2018

Metaltail Hybrid VTOL Vehicle

Alfred Gessow Rotorcraft Center

- · Design and analyze avionics and controls systems for a hybrid hover & forward-flight vehicle for use in urban envi-
- · Collaborate with a team of aerospace engineers to analyze budget, weight, and technology-readiness of the entire vehicle

SOCIAL INFO

② errcsool.com

○ github.com/han-

solomon

🔌 stackover-

flow.com/users/3271700 /errolflynn

errcsool@engineer.com

in linkedin.com/in/ericsolomon-35a22490

SKILLS

Web design Serverless Microservices Javascript & Typescript Go NodeJS & ReactJS HTML5 & CSS3 SQL & NoSQL GraphQL & REST

Container orchestration Docker & Kubernetes Service mesh (incl Linkerd) Blockchain (incl EOSIO)

Data science Machine learning & Al Vehicle control Computer vision Python C++ Tensorflow

Git CI/CD Linux Bash

	*	EDUCATION	
2018 2016		 M.Sc. in Aerospace Engineering University of Maryland Focus in aerial robotics GPA: 3.47 	♥ College Park, Maryland
2016 2012		B.Sc. in Aerospace EngineeringUniversity of MarylandMinor in Computer ScienceGPA: 3.40	♥ College Park, Maryland
		PUBLICATIONS	

2019

2017

2018

"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

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

"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.



2018 American Helicopter Society Graduate Design Prize