

# JOSHUA OSTER-MORRIS

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 Atlanta, GA

## EDUCATION

### B.S. in Information Technology

 Aug 2000 – Jun 2002

 Tucson, AZ

## SELECTED SKILLS

### AWS

AMPCloudFormationCloudTrailCognito

DynamoDBEC2ECREKSIAMKMS

LambdaOpenSearchRedshiftRDS S3

### GCP

AI PlatformAgonesAppEngineBigQuery

BigtableCloud DataflowCloud Functions

FirebaseGCEGCSGKEIAM

### DevOps

AirflowCortexCloudflareDatadog

DockerGitHubGraphQLGradleGrafana

HelmJenkinsKafkaKubernetes

Kubernetes OperatorsLogDNALokiMake

PrometheusRedisSentryServerless

TektonTempoTerraformVercel

### General Programming

C/C++C#DartGoJavaNode.js

PythonRustScalaTypeScript

### Mobile Programming

C#FlutterJavaObjective CSwift

### Web Programming

AngularFlutterGinHugoLitReact

Three.jsTypeScript

### Rust

bindgenPyO3RusotoSerde

wasm-bindgen

### Python

asyncioboto3NumPypandas

TensorFlowTornado

### Database

AccumuloBigQueryBigtableDynamoDB

FirebaseGeospatial ExpertMS SQL Server

OpenSearchRedshiftTSQL

### Electronics

Analog electronics designBluetooth

BootloaderDigital electronics designEagle

FirmwareFPGAKiCadLT Spice


PCB LayoutVHDL


### Other

AKSApache BeamAzureJersey 2

Kernel DriversScrum MasterSOC 2VTK

## LINKS

View this resume as a WebAssembly app:  
 craftycoder.com/cv

View the source code:  
 github.com/craftyc0der/resume

## ABOUT ME

- Experienced tech team leader. Full-stack site reliability engineer. IoT electronics designer.
- Lifelong learner interested in solving hard problems. Manifesting new things into reality is my passion. My career has taught me that execution trumps ideas. Great things do not just happen. They are made by applying creativity, grit, and hard work.
- My experience is in software, hardware, and their interface. I am equally comfortable designing a high performance compute cluster, a tiny circuit, or a mobile computing interface to bring the other two things together. Managing a network of human resources and applying their narrow talents to a complex problem is the path to success.
- Voracious reader of history. Math nerd. Guitarist. Husband. Father. Entrepreneur.

## EXPERIENCE

### Principal Architect

#### Synthesis School


 Sep 2021 – Nov 2022

 Atlanta, GA

- Hire and guide a team of talented professionals.
- Design and implementation of an authoritative, horizontally scalable, game server fleet management tool.
- Design and implementation of enterprise observability system. Metrics, Logs, Tracing, Dashboards. [Demo](#)
- Design and implementation of enterprise GraphQL database abstraction. [Demo](#)
- Design and implementation of an role based authorization for internal services.
- Design CI-CD systems to improve efficiency and reliability of code deployment.
- Owner of internal ETL systems for creation of data lakes for business analysis teams.

### Senior Director of Cloud Technologies

#### OnScale

 Jun 2018 – Aug 2021

 Atlanta, GA

- Hire and lead team of talented professionals.
- Design and implementation of patented HPC scheduler for physics solvers on multiple clouds via Kubernetes, enabling highly parallel and multi-node simulations with end-to-end encryption. [Demo](#)
- Design and implementation of CI/CD infrastructure for and monitoring of the microservice application stack.
- Design and implementation of browser-based 3D spatial results visualization system. [Demo](#)
- Owner of and contributor to our core simulation APIs framework, which has bindings to multiple programming languages and physics solvers. [Demo](#)
- Responsible for all security and organization best practices. Earned SOC 2 compliance, lead AWS Advanced technical reviews, own disaster recovery plans.

### Principal

#### DC Control Systems, LLC

 Mar 2013 – Present

 Atlanta, GA

- Designed for manufacture automotive electronics. Developed mobile applications and cloud software to provide in vehicle and motor pool situational awareness for customers. [Demo](#)
- Designed for manufacture a water purification sensor capable of 8 orders of magnitude of sensitivity in a transimpedance circuit.
- Assisted recently acquired MEMS manufacturer to attach their novel sensors to MCUs, and Android. My code is running in Tesla automobiles I am told.

### Principal

#### Global Health Data Systems, LLC

 Nov 2011 – Dec 2015

 Atlanta, GA

- Developed mobile versions of VAERS (Vaccine Adverse Event Reporting System) for CDC as primary contractor.
- Developed novel algorithms to search next-gen DNA sequences on custom silicon.

### Software Architect

#### Data Services Inc

 Jul 1999 – May 2018

 Tucson, AZ

- Ground up design and implementation of real property risk management software tool responsible for insuring the majority of real property transactions in several states. [Demo](#)
- Built a highly effective LSTM recurrent neural network to read deeds, mortgages and extract parties, legal descriptions, and amounts to reduce data entry costs. Trained on TBs of images and data. [Demo](#)
- Owner of production quality data entry software system optimized for high accuracy and low time waste.