

JOSHUA OSTER-MORRIS

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Atlanta, GA

EDUCATION

B.S. in Information Technology

Aug 2000 – Jun 2002

Tucson, AZ

SELECTED SKILLS

AWS

EC2ECREKSCloudFormationCloudTrail

CognitoDynamoDBIAMKMSLambda

RDS S3 VPC AMP

GCP

AI PlatformAppEngineBigQueryBigtable

Cloud DataflowCloud FunctionsFirebase

GCEGCSGKEIAMAgones

DevOps

DockerKubernetesPrometheusCortex

GrafanaHelmGithub ActionsTerraform

JenkinsDatadogAMPLogDNAGitRedis

KafkaServerlessAirflowGradleMake

General Programming

GoRustJavaC/C++PythonNode.js

ScalaC#

Mobile Programming

Java (Android)Objective CSwift

C# (Windows Mobile)

Web Programming

GinAngularThree.jsHugoPolymer

TypeScriptReactColdfusion

Rust

RusotoSerdebindgenwasm-bindgenPyO3

Python

pandasNumPyasyncioTensorFlowTornado

boto3

Database

MS SQL ServerTSQLE Accumulo

Geospatial ExpertBigtableFirebase

BigQueryFoxpro

Electronics

FPGAVHDLDigital electronics design

Analog electronics designFirmwareBootloader

BluetoothPCB LayoutKiCadEagleLT Spice

Other

Apache BeamVTKJersey 2Linux Bash

Linux Kernel DriversSOC 2Scrum Master

AzureAKS

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 – Present

Atlanta, GA

- Hire and guide a team of talented professionals.
- Design and implementation of an authoritative, horizontally scalable, game server fleet management tool.
- Member of team responsible for the overall cloud footprint with the goal of optimizing for reliability, responsiveness, and situational awareness.
- Design CI-CD systems to improve efficiency and reliability of code deployment.

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.
- 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 – May 2018

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 transimpedence 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.