JOSHUA OSTER-MORRIS

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EDUCATION

B.S. in Information Technology

📅 Aug 2000 – Jun 2002   📍 Tucson, AZ

SELECTED SKILLS

AWS

AMP	CloudFormation	CloudTrail	Cognito
DynamoDB	EC2	ECR	EKS	IAM	KMS
Lambda	OpenSearch	Redshift	RDS	S3

GCP

AI Platform	Agones	AppEngine	BigQuery
Bigtable	Cloud Dataflow	Cloud Functions
Firebase	GCE	GCS	GKE	IAM

DevOps

Airflow	Cortex	Cloudflare	Datadog
Docker	GitHub	GraphQL	Gradle	Grafana
Helm	Jenkins	Kafka	Kubernetes
Kubernetes Operators	LogDNA	Loki	Make
Prometheus	Redis	Sentry	Serverless
Tekton	Tempo	Terraform	Vercel

General Programming

| C/C++ | C# | Go | Java | Node.js | Python |
| Rust | Scala |

Mobile Programming

| C# | Java | Objective C | Swift |

Web Programming

| Angular | Gin | Hugo | Polymer | React |
| Three.js | TypeScript |

Rust

| bindgen | PyO3 | Rusoto | Serde |
| wasm-bindgen |

Python

| asyncio | boto3 | NumPy | pandas |
| TensorFlow | Tornado |

Database

Accumulo	BigQuery	Bigtable	DynamoDB
Firebase	Geospatial Expert	MS SQL Server
OpenSearch	Redshift	TSQL

Electronics

Analog electronics design	Bluetooth
Bootloader	Digital electronics design	Eagle
Firmware	FPGA	KiCad	LT Spice
PCB Layout	VHDL

Other

| AKS | Apache Beam | Azure | Jersey 2 |
| Kernel Drivers | Scrum Master | SOC 2 | VTK |

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.
- Design and implementation of enterprise observability system. Metrics, Logs, Tracing, Dashboards. **[Demo]**
- Design and implementation of enterprise GraphQL database abstraction.
- 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 – 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 transimpedience 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.