JOSHUA OSTER-MORRIS

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EDUCATION

B.S. in Information Technology

Aug 2000 – Jun 2002   Tucson, AZ

SELECTED SKILLS

AWS

EC2 | ECR | EKS | CloudFormation | CloudTrail
Cognito | DynamoDB | IAM | KMS | Lambda
RDS | S3 | VPC

GCP

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

DevOps

Docker | Kubernetes | Prometheus | Cortex
Grafana | Helm | Jenkins | Git | Redis | Kafka
Serverless | Airflow

General Programming

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

Mobile Programming

Java (Android) | Objective C | Swift
C# (Windows Mobile)

Web Programming

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

Rust

Rusoto | Serde | bindgen | wasm-bindgen | PyO3

Python

pandas | NumPy | TensorFlow | Tornado | boto3

Database

MS SQL Server | TSQL | Accumulo
Geospatial Expert | Bigtable | Firebase
BigQuery | Foxpro

Electronics

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

Other

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

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. Family man. Entrepreneur.

EXPERIENCE

Senior Director of Cloud Technologies

OnScale

Jun 2018 – Present   Atlanta, GA

- Hire and lead team of talented professionals with the intention of changing how engineering is done.
- Ground up design and implementation of patented asynchronous HPC scheduler for physics solvers on multiple clouds via Kubernetes, enabling highly parallel and multi-node simulations on-demand with end-to-end encryption. **Demo**
- Ground up design and implementation of CI/CD infrastructure for the microservice application stack.
- Ground up design and implementation of application APIs responsible for tracking and billing of all aspects of the product offering.
- Ground up design and implementation of browser based 3D spatial results visualization system. Capable of playing animations of 50GB datasets at 30FPS without massive data downloads with client-side rendering. **Demo**
- Leader of and developer on our core simulation APIs framework, which has bindings to multiple programming languages and compiles generically for any physics solver.
- Owner of multi-cloud infrastructure monitoring system.
- 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 a 1500W automotive power distribution unit. 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 distinguishing between salt water to distilled water at 0-70C. That is 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. My firm ran trials of the platform in clinics in multiple states to show success metrics relative to the fax-in forms.
- Developed novel algorithms to search next-gen DNA sequences on custom silicon. Reduces energy cost per sequence by many times over traditional CPU based methods.

Software Architect

Data Services Inc

Jul 1999 – Sep 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 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. Highly effective! **Demo**
- Owner of production quality data entry software system optimized for high accuracy and low time waste.