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# NATHAN SELIKOFF

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## PROFESSIONAL PROFILE

Senior Software Engineer with a proven ability to build systems that support the delivery of geospatial data to the cloud, translating it to formats and services which make visualization and insights frictionless.

## CORE COMPETENCIES

Real-time Data Pipelining · Geospatial Data Processing and Visualization · Full Stack Web Development · Graphics Programming · DevOps · Communication Skills

## WORK EXPERIENCE

### Chief Technology Officer, Co-Founder

SEPTEMBER 2016 – PRESENT

*Omnimodal*

- **Design and build a geospatial data platform from the ground up.** Build an intuitive web app that empowers cities and public/private operators to manage mobility in real-time. Translate a variety of complex spatiotemporal data into elegant, interactive, and insightful visualizations. Engineer reliable and scalable cloud-based data pipelines.
- **Partner closely with the CEO to generate 300% year-over-year revenue growth.** Collaborate on defining multi-million dollar sales objectives, key performance metrics, applications, RFPs, project scopes, marketing materials, sales calls and operations in a mostly-remote company. Secure additional funding via accelerators and pitch competitions. Advocate for interoperable open data standards and diversity, inclusion and equity in the Central Florida tech ecosystem.

### Interactive Experience Developer, Full Stack Web Developer, Owner

MAY 2003 – PRESENT

*Digital Awakening Studios*

- **Help design teams bring interactive experiences to life.** Collaborate with creative directors, technical directors, project managers, artists and musicians to build high-profile projects across exhibit & retail, data viz & web, live performance, and generative art. Select appropriate technologies, turn visual concepts into code, develop rapid prototypes, and implement robust final products.
- **Design, build and maintain database-driven sites and web apps.** Model, digitize and automate critical business processes to maximize sales and decrease manual labor. Own the full stack, leverage open source, and advocate for web standards. Work closely with over 20 small businesses and nonprofits to create and expand physical and digital marketing assets.

## Independent Fine Artist

MAY 2003 – PRESENT

### *The Art of Nathan Selikoff*

- **Combine software, hardware and traditional materials to challenge boundaries between art, design and technology.** Conceptualize, prototype and realize self-initiated and commissioned projects across media. Implement existing and new 2D and 3D computer graphics algorithms. Explore multimodal interactions – physical, visual, haptic, spatial, aural and gestural.
- **Build a substantial artist resume and global exposure.** Secure grants, exhibitions, sales, commissions, press coverage and awards. Design and produce physical and digital marketing materials. Confidently communicate online and in person about artistic vision, story, process and technique.

## Solution Architect, Technical Lead

FEBRUARY 2012 – MAY 2013

### *Formulate*

- **Oversaw the design and development of new web app products and features.** Architected sophisticated systems and wrote clean, maintainable code. Managed less senior engineers and collaborated with team members in a remote-only company. Solved difficult problems and introduced the team to innovative techniques.
- **Worked closely with the Founder to support a \$500,000 engineering effort.** Communicated directly with clients, and translated core client needs into detailed project plans. Codified best practices, expanded internal and external documentation reuse, and mentored team to follow through on process changes.

## Director of Web Development

MAY 2009 – AUGUST 2011

### *Arabian Nights Dinner Attraction*

- **Designed and built an e-commerce web app that generated \$1 million in online ticket sales.** Researched and selected a third party solution to integrate online and physical ticketing sales and validations. Oversaw hardware setup, integration and training. Created internal documentation and built customized real-time visualizations to optimize seating.
- **Researched and managed company-wide migration to Google Apps.** Lowered hosting costs, improved reliability and security, and streamlined spam management. Worked closely with the Director of Marketing, Director of IT, and CFO to address other technical needs, evaluate vendors and communicate with suppliers.

## EDUCATION

### **BFA – Computer Science, Art, Digital Media**

AUGUST 1999 – MAY 2004

### *University of Central Florida*