

# JONATHAN SUEVER

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An experienced software engineer with diverse technical expertise and a history of delivering high-quality, scalable, and innovative solutions seeking an individual contributor role within an organization solving complex software and hardware problems

## Technical Skills

**Languages/Frameworks:** Go, Python, Embedded C/C++, Ruby/Rails, Node.js, React.js

**Protocols:** GRPC, HTTP, I2C, MQTT, Multicast, Protobuf, SPI, USB

**Datastores:** Cassandra, Ceph, DynamoDB, InfluxDB, MongoDB, Postgres, Redis, S3, TimescaleDB

**Infrastructure:** AWS, Docker, GCP, Kubernetes, Linux/Unix, Terraform

**Other:** Agile, CI/CD, Documentation, Git, Project Management, Testing

## Education

### Georgia Institute of Technology

Ph.D. Bioengineering  
2008 - 2013 | GPA: 3.83/4.0

### University of Alabama at Birmingham

B.S. Biomedical Engineering and Mathematics with University Honors & Engineering Honors  
2004 - 2008 | GPA: 4.0/4.0, *summa cum laude*

## Community

### Open Source Contributor

(MATL-Online, DENSEanalysis, pydicom)

### Community Contributor, Stack Overflow

(2011 - present)

### Technical Reviewer, Manning Publications

(2013 - present)

### Habitat for Humanity

(2005 - present)

## Awards

Culture Award, Rigor, 2018

Graduate Research Fellowship, National Science Foundation, 2010 - 2013

President's Fellowship, Georgia Institute of Technology, 2008 - 2012

Jane Knight Lowe Scholarship, University of Alabama at Birmingham, 2004 - 2008

## Work Experience

### Polygon.io, Inc.

Atlanta, GA (hybrid)

Infrastructure / Site Reliability Engineer

Mar 2023 - Present

Applied best-practices to improve the security, observability, and reliability of multiple on-prem Kubernetes clusters hosting hundreds of microservices providing real-time financial data. Deployed and maintained the networking hardware needed to reliably ingest real-time multicast financial data. Developed processes for capacity planning and maintenance of physical hardware distributed across three data centers. Improved developer experience via CI/CD, self-service infrastructure, and observability tools.

### Huxley Medical, Inc.

Atlanta, GA (hybrid)

Chief Technology Officer

Jan 2022 - Jan 2023

Software / Firmware Engineer

Jan 2021 - Dec 2021

Grew the technology of the company from an Arduino-based proof-of-concept to a wearable internet-connected device with custom hardware and firmware that passed rigorous electrical testing (IEC 60601-1, -2) and was worn by over 100 volunteers in preparation for an FDA filing. Oversaw the transition of all signal processing algorithms from MATLAB-based prototypes to cloud-based Python pipelines complete with tests and CI/CD. Designed and built web applications and the infrastructure to support internal operations and a customer-facing web portal for viewing clinical data and reports.

### Tenjin, Inc.

San Francisco, CA (remote)

Staff Software Engineer

Mar 2020 - Jan 2021

Senior Software Engineer

Feb 2019 - Mar 2020

Transitioned a high-traffic mobile analytics service to Kubernetes using Go/GRPC microservices to improve scalability and reduce costs by 40%. Migrated all message queueing from SQS to Kafka to reduce monthly spend by 20%. Architected and implemented a solution to reliably collect analytics from mobile devices within mainland China while overcoming technical limitations (intermittent connectivity, Great Firewall) and adhering to local regulations (ICP license). Executed all technical requirements needed to achieve SOC 2 Type I and II certifications within 6 months, enabling partnerships with platforms such as Twitter.

### Rigor, Inc. (acquired by Splunk)

Atlanta, GA

Software Engineer

May 2017 - Jan 2019

Modernized Rigor's web performance monitoring agent to add support for Google Chrome and network emulation, primary requirements to secure a \$1M ARR contract with Akamai Technologies. Delivered a Docker-based monitoring agent for on-prem deployment after a year-long effort which necessitated zero-downtime foundational changes to the infrastructure.

### Cardiac Imaging Technology Lab

University of Kentucky | Geisinger Health System

Lexington, KY | Danville, PA

Research Scientist

Jan 2015 - Apr 2017

Research Assistant Professor

Jul 2014 - Dec 2014

Post-Doctoral Scholar

Jul 2013 - Jun 2014

Developed a suite of software libraries and tools for acquiring, processing, and analyzing 7D MRI data of the heart. Built image and data processing pipelines to allow researchers to securely access petabytes of clinical data while maintaining patient confidentiality and meeting HIPAA, IRB, and internal IT and security requirements.

### Georgia Institute of Technology | Emory University

Atlanta, GA

Graduate Research Assistant

Jul 2008 - Jul 2013

Developed software and image-processing algorithms to combine stereoscopic X-ray images with heart function derived from 3D MRI images to predict when a patient would benefit from a biventricular pacemaker.