

Anthony J. Foiani

Mentor, Programmer.

Email: anthony@foiani.com
Web: <http://foiani.com/anthony/>
Physical: 1543 Rainier Ave
Napa, California, 94558 USA
Phone: +1 650 296 9563

Skills

Training, Consulting, Mentoring:

Mentoring, Requirements Collection, Facilitating, Course Research / Development / Presentation / Training, Process Optimization

Languages:

Terraform, Typescript / Javascript, C++ (+ Boost), Perl, C, Shell Scripts, Python, Makefiles, Regular Expressions, Java, SQL, Ruby

Operating Systems + Platforms:

Linux, U-Boot, Windows, OSX

Amazon Web Services (AWS):

IAM, EC2, Lambda, Networking, RDS, S3, Load Balancers, CloudFront, EKS, AWS SSO, CloudTrail

Monitoring:

DataDog

Data Representation:

JSON, Protocol Buffers, XML, HTML, ASN.1, UTF-8, CSV, Compression + Archive Formats, LaTeX, PDF, GraphQL

Digital Security:

Threat Modeling, SSO/SAML, PKI (X509, CA), Smart Cards, SSH, OpenSSL, CMS, ASN.1

Compliance:

Technical Controls, SOC 2, ISO 27001, Audits, GDPR

Embedded Development:

Toolchains, Bootloader, Linux Kernel + Userspace, Flash, I2C, Realtime, Custom Hardware

Programming Techniques:

TDD, Refactoring, Threads, C++ RAII, Optimization, Patterns, Logging

Source Code Management:

git (especially GitHub), CVS, Subversion, Mercurial, Perforce

Networking:

TCP/IP, gRPC, Sockets, HTTP, SSH, NTP, SMTP

Specialties:

Code Remediation, Nuclear Safeguards, Open Source Licenses, Basic Electronics, Requirements Analysis, SQL Optimization, Basic German, various internal Google tools

Education

New Mexico State University:

Bachelor of Science, 1995
Majors: Computer Science, Mathematics
Minor: German

Publications

The Perl Journal:

"A Web Spider in One Line?" Fall 1999

Experience

Firstup: Senior Site Reliability Engineer 2022-2023

- Production Infrastructure
 - Reverse-engineered existing layout
 - Extracted aspects to Terraform modules
 - Migrated all prod infra to Okta / AWS SSO
 - Upgraded multiple live EKS clusters
- Compliance
 - Technical point-of-contact for SOC 2, ISO 27001, GDPR
 - Wrote multiple custom auditing tools
- Education / Mentoring
 - Helped less-technical colleagues access AWS
 - Brought whole team up to modern Terraform standards

Airtable: Senior Site Reliability Engineer 2020-2022

- Production Engineering
 - Member of 24x7 oncall rotation with 5-minute SLA
 - Managed incidents and their postmortems
- Compliance
 - Technical point-of-contact for SOC 2 and ISO 27001
- Production Access Onboarding / Mentoring
 - Provisioned privileged hardware and accounts for 20+ users
 - Evolved and optimized process to handle 5x growth.

Google: Senior Site Reliability Engineer 2013-2020

- YouTube Trust & Safety SRE
 - Tech Lead and founding member
- YouTube Search & Discovery SRE
 - Senior member of 24x7 oncall rotation with 5-minute SLA
 - Managed a YouTube-custom instance of Google Search
 - Rolled out optimizations saving >20% of >1M cores
- Internal Consulting, Educating, Mentoring, and Interviewing
 - Created and taught multiple courses
 - Mentored 10+ junior SREs to full solo oncall capability
 - Recognized company-wide expert on some technologies
 - Interviewed 50+ candidates

Foiani LLC: Sole Proprietor 2009-2013

- Universal Non-Destructive Assay Platform
 - Nuclear safeguards data recorder
 - Custom Linux kernel, distribution, app, and UI

Activities

Contributions:

Code samples and improvement forks on GitHub
Perl samples (1998, still referenced occasionally)

More Information

Full resumé online at:

<http://foiani.com/anthony/info/resume.html>