

# Ofek Lev

## Software Engineer



### SUMMARY

I am a Software Engineer forever learning new technologies. Designing easy-to-use APIs or interfaces around complex systems is one of my greatest passions.

📍 : **United States**

✉ : [human@ofek.dev](mailto:human@ofek.dev)

🏠 : <https://ofek.dev>

🌐 : **ofek** (<https://github.com/ofek>)

🐦 : **Ofekmeister**  
(<https://twitter.com/Ofekmeister>)

in : **ofeklev**  
(<https://www.linkedin.com/in/ofeklev/>)

## Experience



Dec 2017 – present

**Senior Software Engineer at Datadog** (<https://www.datadoghq.com>)

### SUMMARY

Datadog is the leading monitoring solution for visualizing and alerting on metric, log, APM, etc. data from hundreds of OOTB integrations.

- Created integrations for many technologies such as Envoy, Hyper-V, CockroachDB, Vault, ClickHouse, and TLS itself
- Implemented a circuit breaker and exponential backoff in the Agent, making our backend more resilient to failures
- Architected the E2E tooling for Agent Integrations, allowing anyone to spin up and test production environments with a single command
- Built a public docs site for Integration developers from scratch, which is now referenced by the official documentation
- Ensured the CI infrastructure ran smoothly and was optimized for 2 large, active monorepos
- Introduced memory profiling facilities that made it easier to discover the source of memory leaks

Oct 2012 – Nov 2017

**Full Stack Developer at Freelance**

- Created and maintained APIs (usually via Python + Flask) for many clients, hosted primarily on GCP
- Created many test suites for verifying web page behavior using Selenium + PhantomJS

## Languages



**English :** ★★★

**French :** ★★☆☆

## Skills



**Backend :** ★★★

Python Go Rust Docker Kubernetes

GCP AWS Azure GraphQL REST

Serverless Performance Profiling

**Frontend :** ★★☆☆

HTML CSS JavaScript Selenium

**Systems :** ★★★

C C++ Assembly

**Data Analysis :** ★★★

Jupyter NumPy Pandas Matplotlib

Seaborn

**Design :** ★★☆☆

Krita Blender Autodesk 3ds Max

**A/V :** ★★★

OpenCV FFmpeg x264 x265

VapourSynth StaxRip

May 2012 – Aug 2012

### Student Researcher, Intern at Computing Research Association (<https://cra.org>)

- Built machine learning models to detect a rare birth defect of the heart in newborn patients
- Created visualizations to better detect Patent Ductus Arteriosus based on feedback from physicians at the Johns Hopkins School of Medicine

## Volunteer

Dec 2006 – Mar 2009

### Tutor at National Honor Society (<https://www.nhs.us>)

- Tutored students in mathematics (Geometry through Calculus), leading to at least a 20% grade improvement in all my students

Feb 2007 – Feb 2008

### Maryland Ambassador at Muscular Dystrophy Association (<https://www.mda.org>)

- Invited to be a guest speaker at numerous fundraising events
- Met with multiple politicians at the state capitol to help explain the ramifications of not enacting certain policies

## Education

Aug 2009 – Jan 2013

### Bachelor in Computer Science and Psychology from University of Maryland Baltimore County with GPA of 3.8

## Awards

May 2006

### County Chess Champion from Harford County Public School System

SUMMARY

Won 1st place all 3 years I attended the annual tournament

## Publications

Jul 2019

### in-toto: Providing farm-to-table guarantees for bits and bytes

(<https://www.usenix.org/system/files/sec19-torres-arias.pdf>) by USENIX

SUMMARY

Acknowledged by name as a key contributor in the first production-ready implementation of this new security apparatus

## Interests

### Chess :

Analysis Competitive

### Home Automation :

Home Assistant Raspberry Pi IFTTT

### Cryptography :

Cryptocurrency Blockchain

May 2012

**Multivariate time series analysis of physiological and clinical data to predict patent ductus arteriosus (PDA) in neo-natal patients**

(<https://web.archive.org/web/20191208174119/http://archive.cra-w.org/ArticleDetails/tabid/77/ArticleID/225/Multivariate-time-series-analysis-of-physiological-and-clinical-data-to-predict-patent-ductus-arteriosus-PDA-in-neo-natal-patients-Final-Report.aspx>)

by **Computing Research Association**