## Ofek Lev

### Senior Software Engineer



SUMMARY

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

**Q**: United States

: https://ofek.dev

ofek (https://github.com/ofek)
 ofekmeister
 (https://twitter.com/ofekmeister)

in: ofeklev

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(https://www.linkedin.com/in/ofeklev/)

### **Experience**

### Volunteer at Open Source Software

SUMMARY

I created and maintain many open source projects that are used heavily throughout industry and academia. I also care deeply about the Python and Rust communities and try to improve the ecosystems of both.

- Python bindings (https://github.com/ofek/coincurve) for libsecp256k1, which serves as the crytographic backbone of many projects, including the entire Ethereum Python community
- A package manager (https://github.com/pypa/hatch) and build system (https://pypi.org/project/hatchling/) for
  Python that solves long-standing pain points for users and has been adopted by Python's
  official packaging team
- Highly optimized Kubernetes CSI driver (https://github.com/ofek/csi-gcs) for mounting Google Cloud
  Storage buckets that Google credits (https://github.com/ofek/csi-gcs) in the design of their official
  driver
- Authored PEP 631 (https://peps.python.org/pep-0631/) which defines the standard way to specify dependencies for Python projects

# Languages **English:** French: **Skills** Backend: Python Rust Go Docker Kubernetes GCP AWS Azure GraphQL REST Serverless | Performance Profiling \*\*\* Frontend: HTML CSS JavaScript Playwright Selenium Systems: C C++ Assembly Data Analysis: \*\*\* Jupyter NumPy Pandas Matplotlib

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Design:

A/V:

Blender Autodesk 3ds Max Krita

OpenCV FFmpeg x264 x265

VapourSynth StaxRip

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Dec 2017 - present

### Senior Software Engineer at Datadog (https://www.datadoghq.com)

SUMMARY

Datadog is the leading monitoring and security platform for bringing together end-to-end traces, metrics, and logs to make applications, infrastructure, and third-party services entirely observable.

- Acquired expertise with many technologies in order to create integrations such as for Envoy, ClickHouse, CockroachDB, Vault, Hyper-V, and TLS itself
- Implemented (https://github.com/DataDog/datadog-agent/pull/1458) the Agent's novel circuit breaker and exponential backoff logic, making our backend more resilient to failures and decreasing provisioning requirements
- Built a public docs site (https://datadoghq.dev/integrations-core/) for Integration developers from scratch,
   which is now referenced by the official documentation
- Architected the E2E tooling (https://datadoghq.dev/integrations-core/e2e/) for Agent Integrations, allowing
  anyone to spin up and test production environments with a single command
- Ensured the CI infrastructure (https://datadoghq.dev/integrations-core/meta/ci/testing/) ran smoothly and was optimized for 3 large monorepos with the most recent rewrite reducing runtime by 30% and saving thousands every month
- Improved our Helm chart generator and Bazel linter based on the needs of various teams, easing CNAB (https://github.com/cnabio/cnab-spec) adoption and making deployments less error-prone
- Introduced memory profiling facilities (https://github.com/DataDog/datadogagent/blob/main/docs/dev/agent\_memory.md#python-tracking-and-troubleshooting) that made it easier to discover the source of memory leaks
- Routinely gained expertise in different domains in order to do large-scale rewrites of core
  components, such as for OpenMetrics (https://github.com/DataDog/integrations-core/pull/8300) and Windows
  performance counters (https://github.com/DataDog/integrations-core/pull/10504), which always significantly
  improved performance and ease of onboarding
- Created our own Python package index for CI/CD purposes that is served by GitHub Pages with artifacts cached by Cloudflare, which does not cost anything to run and has experienced zero downtime since creation
- Conducted dozens of engineering interviews and graded a similar number of take-home tests, ensuring our hires are exceptional in both technical ability and character

Oct 2012 - Nov 2017

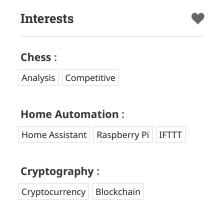
### **Full Stack Developer at Freelance**

- 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

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



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# 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** 

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

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

SUMMARY

Jul 2019

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

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

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