

Mike Arpaia

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Education

2019–2021 **BA Mathematics**, *University of Colorado Boulder*.

Select Professional Experience

The following is a select set of positions that I've held over the last ten years. See my webpage for a full list with details on subject matter and responsibilities: <https://arpaia.co/#experience>

since 2019 **Principal Machine Learning Engineer**, *Workday*, Boulder, CO.

2016–2019 **Co-Founder & CTO**, *Kolide*, Boston, MA.

2015–2016 **Engineering Manager**, *Facebook*, Menlo Park, CA.

2014–2015 **Software Engineer**, *Facebook*, Menlo Park, CA.

2012–2014 **Senior Software Engineer**, *Etsy*, Brooklyn, NY.

2011–2012 **Security Engineer**, *iSEC Partners*, New York, NY.

Open Source Software Leadership

2018–2019 **Release Team Member**, *Kubernetes*.

2018–2019 **Multitenancy Working Group Member**, *Kubernetes*.

2014–2016 **Project Lead**, *Osquery*.

2014 **Project Founder**, *Osquery*.

Funding & Grants

\$8,000,000 **Kolide Series A**, *Venture Capital Round led by Matrix Partners*, 2018.

\$1,600,000 **Kolide Series Seed**, *Venture Capital Round led by Accomplice*, 2016.

Institutional Service

2014 **Selection Committee Member**, *Facebook Internet Defense Prize (\$50,000)*, 2014.

2010–2011 **Lecture Organizer & Instructor**, *Stevens Cyber Defense Team*.

Technical Skills

Languages Python, Go, C++, C, Bash

Libraries NumPy, Pandas, PyTorch, SymPy

Infrastructure Kubernetes, Docker, Google Cloud Platform

Editors Vim, Visual Studio Code

Typesetting \LaTeX

Publications

- [1] Nicholas Capalbo, Theodore Reed, and **Michael Arpaia**
RTFn: Enabling Cybersecurity Education Through a Mobile Capture the Flag Client
The International Conference on Security and Management, 2011

Conference Talks

- [1] **Mike Arpaia**
Using a Kubernetes Operator to Manage Tenancy in a B2B SaaS App
KubeCon North America 2018, Seattle, WA
- [2] **Mike Arpaia** and Zach Wasserman
Instrumenting Dynamic Environments with Source Control, Peer Review, and Decentralized Intelligence Distribution
QueryCon 2018, San Francisco, CA
- [3] **Mike Arpaia**
Starting Growing and Scaling Your Host Intrusion Detection Efforts
LocoMocoSec 2018, Kauai, HI
- [4] **Mike Arpaia**
Building Successful Open Source Security Software
CSAW THREADS 2016, Brooklyn, NY
- [5] **Mike Arpaia** and Theodore Reed
OS X Operating System Security at Scale
PSU MacAdmins 2015, University Park, PA
- [6] **Mike Arpaia**
Host Intrusion Detection With Osquery
Security @ Scale 2014, Menlo Park, CA
- [7] **Mike Arpaia** and Kyle Barry
Data Driven Web Application Security
Black Hat USA 2013, Las Vegas, NV
- [8] **Mike Arpaia**
iOS and Android Security Mechanisms and Exploit Mitigations
MDevCon 2013, Amsterdam, NL
- [9] Dan Guido and **Mike Arpaia**
Mobile Exploit Intelligence Project
Black Hat Europe 2012, Amsterdam, NL
- [10] **Mike Arpaia** and Theodore Reed
Creating a Successful University Cyber Defense Organization
DEFCON 2011, Las Vegas, NV