

Fotios Lindiakos

Skills

Expert	NodeJS, Kubernetes/Docker, Terraform, RabbitMQ/AMQP, Memcache, Application Architecture (12 Factor best practices, scalability, distributed applications)
Advanced	Ruby, AWS, NoSQL (Redis, Graph Databases), RDBMS (MySQL), Networking, Security/Penetration Testing
Intermediate	Perl, React
Novice	Python, Golang, Kotlin, CQRS

Experience

Jan 2014 - Present **Principal Engineer, Shutterstock Images, New York, NY.**

Positions

- o Software Engineer - Jan 2014 - Mar 2016
- o Principal Engineer - Mar 2016 - Present

NextGen Cloud Infrastructure Team (Principal Engineer / Development Lead)

Independently researched and implemented a proof of concept cloud architecture using AWS and Mesos under the direction of our CTO. Developed a delivery plan and formed a team of 4 internal engineers and 4 contractors. Delivered a functional prototype within 4 months and the first production application within 6 months.

This included developing an Infrastructure-as-Code pipeline (utilizing terraform), implementing new development processes powered by Jenkins 2, and adopting Kubernetes as the container orchestration technology.

Worked with and advised a separate team of contractors and other internal teams to migrate applications to the new infrastructure. This included converting existing build, test, and deployment processes to work on the new platform as well as modifying application architecture to be "cloud ready" and taking advantage of AWS/SaaS services previously unavailable in our legacy infrastructure.

Javascript Platform Team (Principal Engineer / Development Lead)

Developed an internal framework and worked closely with multiple stakeholders (other development teams) to ensure their requirements and concerns were met while they migrated their applications onto our framework

Contributor Team (Software Engineer)

Responsible for Web and API development and migrating a legacy Perl application into NodeJS.

Other

Participated in weekly architecture reviews of new services as well as proposed improvements Worked closely with recruiting and tech leadership to improve our interviewing and hiring process (conducted over 100 interviews). Won an internal hackathon (Dec 2015) for developing a tool to replay legacy API calls against new services (idempotent requests only) and compare their response values and performance.

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Aug 2011 - **Software Engineer**, *Red Hat*, Raleigh, NC (remote).

Jan 2014 **OpenShift**

Worked on OpenShift Online. Primarily responsible for backend orchestration and cartridge development. Other projects included developing a daemon that automatically throttled abusive applications using Linux control groups, developing the web console, developing our command line tools, and improving our testing procedures and coverage.

June 2007 - **Senior Cybersecurity Engineer/Scientist**, *The MITRE Corporation*, McLean, VA.

Aug 2011 **Cybersecurity Operations Center (CSOC)**

I worked in a lab that developed novel security solutions for combating the advanced persistent threat and nation-state level adversaries. As part of this effort, I created the INTERSECT project which is described below.

Cross Boundary Information Sharing Lab (XBIS)

I worked in a lab dedicated to experimenting with and testing cross-domain security devices. In this lab, built an extensive virtual infrastructure to simulate classified environments. I have also engineered solutions that leverage these devices for use in operational environments, such as the JSChat project described below.

General Officers' Workshop

I regularly gave a demonstration of realistic hacking scenarios to a quarterly training program given to newly promoted General Officers for the Army. I have also given the same demonstration to Center for Medicare & Medicaid Services and the Army Core of Engineers (with some customization to make it more applicable to those audiences).

Penetration Testing

I have performed numerous penetration tests and vulnerability assessments for different sponsors. I was primarily responsible for web application testing and have given courses on web application security to sponsors and coworkers.

Summer 2006 **Technical Intern**, *The MITRE Corporation*, McLean, VA.

Worked on the Honeyclient Project, which was a malware detection system developed in Perl. At the time, it was a novel concept that has since spurred numerous commercial endeavors.

Education

2002–2007 **B.S. in Computer Science**, *Rochester Institute of Technology*, Rochester, NY.

Minor in Philosophy, Concentration in Mathematics

2010–2014 **M.S. Information Security and Assurance (Incomplete)**, *George Mason University*, Fairfax, VA.

I moved to New York and was unable to complete final 3 credits remotely

Projects

INTERSECT A distributed malware analysis framework I created (along with a coworker) while working at MITRE. This framework allowed multiple, disparate malware analysis engines to analyze potentially malicious files and report their findings which were then aggregated and evaluated. It allowed us to gather data from commercial tools, open source tools, as well as in-house developed tools, and compare results. Another major benefit was that when implementing a new tool, it only needed to be integrated with the existing INTERSECT infrastructure (as opposed to the entire corporate infrastructure). This made for much faster tool integration and prototyping research projects against production data. At the time, this was an extremely novel concept and was very effective for countering advanced cyber attacks against our corporate network. We presented at Shmoocon 2011 and the slides and video are available online (http://bit.ly/shmoocon_intersect).

Other

Awards Eagle Scout, National Honor Society, Walt Whitman High School Athlete of the Year

Associations Computer Science House, National Eagle Scout Association, Shenandoah Mountain Rescue Group

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