Lucas F. Chaufournier

lucaschaufournier@gmail.com

https://lucasch.dev
(301) 820-2080

Technical Skills

Programming Languages: Golang, Python,Javascript, C, Bash, Bokeh
Cloud Technologies: AWS, GCP, Azure, Docker Products, Linux Containers, KVM
Architectures: Microservice, Edge Clouds, Centralized Clouds, Pub/Sub

Work Experience

Graduate Research Assistant in Distributed Systems   Sep 2015 - Present
University of Massachusetts Amherst, Amherst, MA
- Evaluated the performance of hardware and operating system virtualization platforms to show which workloads should use containers over VM's.
- Evaluated the use of multi-pathing network protocols for speeding up workloads in data centers and at the edge.
- Data Visualization of large networking datasets for debugging.

Consulting Backend Engineer   Jun 2018 - Jan 2019
Veea Inc., New York, NY
- Designed customer demo applications in golang and node.
- Led the design of Veea's developer ecosystem including a golang based CLI, resulting in an easy to use environment for developers working with the platform.
- Golang developer on the backend cloud management system of edge devices; responsible for DOS detection.
- Designed and implemented demos to showcase computer vision on edge devices.

Summer Research Intern   May 2017 - Aug 2017
IBM Thomas J. Watson Research Center, Yorktown Heights, New York
- Evaluated container performance at the edge of the network to show performance on low resource nodes.
- Evaluated the performance of machine learning container workloads when scaling many instances on a node to show optimal workload placement.
- Built a framework in golang for easily running and measuring container experiments at scale.

Jr. Info-Sec & Compliance Analyst, Linux System Administrator   Jun 2013 - May 2015
GWU School of Engineering Computing Facility, Washington, DC
- Ensured compliance with George Washington University network security policies.
- Deployed and maintained High Performance Computing Grid Machines.
- Hardened linux computing infrastructure.

Education

University of Massachusetts Amherst   Amherst, MA , May 2018
M.S. Computer Science
Specialized in Distributed Systems

The George Washington University   Washington, DC, May 2015
B.S. Computer Science
G.P.A. 3.9/4.0 (in major)

University College London   London, UK, Fall 2013
B.S. Computer Science Affiliate Student,

Select Computer Science Courses
Secure Distributed Systems, Distributed OS, Visualization, Design of Open Source Software, Computer Security, Operating Systems, Systems Programming and Embedded Systems

Select Publications
Performance Evaluation of Multi-Path TCP For Data Center and Cloud Workloads
International Conference on Performance Engineering, To Appear 2019.

Fast Transparent Virtual Machine Migration in Distributed Edge Clouds
ACM/IEEE Symposium on Edge Computing, October 2017.

Containers and Virtual Machines at Scale: A Comparative Study
ACM International Middleware Conference, December 2016.