Lucas F. Chaufournier

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https://lucasch.dev

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Summary

A Self-motivated and independent problem-solver with advanced programming and research skills alongside a hardworking mentality. Seeking to apply background and experience in computer science to take on a challenging new role with a growing team. Increasingly motivated towards roles that have a direct impact on bettering the experience of others.

Technical Skills

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

Work Experience

Graduate Research Assistant in Distributed Systems

University of Massachusetts Amherst, Amherst, MA

September 2015 - Present

- Evaluated the performance of hardware and operating system virtualization platforms.
- Evaluated the use of multi-pathing network protocols in data centers and at the edge.
- Data Visualization of large networking data sets for debugging.

Consulting Backend Engineer

Veea Inc., New York, NY

June 2018 - January 2019

- Designed customer demo applications, demonstrating the abilities of edge computing.
- Lead the design of Veea's developer ecosystem.
- Developer on the backend cloud management system for edge devices.
- Researched and implemented demos for computer vision on edge devices.

Summer Research Intern

IBM Thomas J. Watson Research Center, Yorktown Heights, New York

May 2017 - August 2017

- Evaluated container performance at the edge of the network.
- Evaluated the performance of machine learning container workloads when scaling many instances on a node.
- Built a framework for easily running and analyzing container experiments.

Jr. Information Security and Compliance Analyst & Linux System Administrator

GWU School of Engineering Computing Facility, Washington, DC

June 2013 - May 2015

- 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
M.S. Computer Science, May 2018
Specialized in Computer Systems

The George Washington University, Washington, DC
B.S. Computer Science, May 2015
G.P.A. 3.95/4.0 (in major)

University College London, London , UK
B.S. Computer Science Affiliate Student,
September 2013 - December 2013

Select Computer Science Courses

Secure Distributed Systems, Distributed OS, Visualization, Design of Open Source Software, Computer Security, Cryptography, Computer Networks, Operating Systems, Systems Programming and Embedded Systems, Software Engineering, Algorithms and Data Structures

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.