

# Mike Rooney

## Education

- **University of North Carolina at Chapel Hill** Chapel Hill, NC  
*M.S. in Computer Science* Aug. 2013 – Aug. 2016
- **University of North Carolina at Chapel Hill** Chapel Hill, NC  
*B.S. in Computer Science* Aug. 2009 – May 2013

## Experience

- **Microsoft** San Francisco, CA  
*Platform Lead for AKS (Azure K8s Service)* Jan. 2021 – Current
  - Improve reliability and performance of AKS customer control and data planes
  - Define and execute a roadmap to guarantee AKS continues to be the best in class managed k8s solution
- **Pluralsight** RTP, NC  
*Senior Instructor and Developer* Jan. 2021 – Dec. 2021
  - Lead the cloud platforms vertical
  - Managed a large pool of contract instructors to deliver the best classes possible
  - Developed standardized processes to provision virtual lab environments for all proprietary courseware
  - Refined the product roadmap and strategic positioning of Pluralsight's "Flow" product
- **Loopback LLC** RTP, NC  
*Owner and Founder* June 2020 – Jan. 2021
  - Acquired by Pluralsight
  - Development and delivery of innovative tech learning solutions customized for enterprise IT
  - Expert consultation for problems in the domain of cloud computing
- **Microsoft** Seattle, WA  
*Software Engineer* Dec. 2017 – Sep. 2019
  - Ensure public SLA for the Azure Storage Resource Provider service (control plane for all storage offerings)
  - Develop/maintain migration scheduler service (responsible for all internal data movement) and replication code
  - Drive initiative to automate the decommissioning process for last gen storage arrays
- **Self-Employed** RTP, NC  
*Solutions Architect and Instructor* Jan. 2017 – Nov. 2017
  - Performed as a solutions architect for RedHat to deploy, administer and develop atop their offerings catalog including OpenShift, Ansible Tower, JBoss middleware, etc.
  - Taught Google's Data Engineering courseware as a Google Cloud Platform Authorized Trainer
  - Development of bespoke VR experiences
- **NetApp** RTP, NC  
*Software Engineer* Apr. 2015 – Jan. 2017
  - Upstream API design and coding for Cinder (Block Storage) and Manila (Shared Filesystems)
  - Integrated NetApp hardware platforms into aforementioned OpenStack projects
  - Deployed and maintained internal CI/CD pipeline integrating NFS, iSCSI, and Fibre Channel systems
- **UNC-Chapel Hill** Chapel Hill, NC  
*Researcher and Teaching Assistant* Aug. 2013 – July 2015
  - Design of novel camera sensor, SPICE modeling of selected image sensor components, and behavioral synthesis of sensor network
  - Analysis of expected performance and establishment of worst case noise bounds
- **SpaceX** Hawthorne, CA  
*Security Engineer Intern* May 2014 – Aug. 2014
  - Emulation of commercial grade network processing units using GPUs

- **NVIDIA Corporation** Santa Clara, CA  
*Tegra Security Intern* May 2013 – Aug. 2013
  - Digital architecture work to add Elliptic Curve Cryptography functionality to a dedicated coprocessor
  - Investigation into mitigating differential power analysis side-channel attacks
- **GAMMA Group** Chapel Hill, NC  
*Collaborator and Developer* Aug. 2012 – Dec. 2012
  - Assisted in development of a multi-touch-enabled Android application that simulates virtual percussive instruments in real-time using physically-based sound synthesis
- **NSA** Fort Meade, MD  
*Cryptologic Access Intern* May 2012 – Aug. 2012
  - Developed custom analytics for large scale data processing
  - Employed MapReduce techniques for optimal parallelization
  - Produced critical workflows that queried disparate databases by automating the generation of complex selectors

## Skills

**Languages:** Python, Rust, Go, Javascript/HTML/CSS, Assembly (RISCV,ARM,MIPS), Verilog, L<sup>A</sup>T<sub>E</sub>X

**Software/platforms/frameworks:** Azure, Google Cloud Platform, AWS, Kubernetes, TensorFlow, all of the major Big Data analytics tools, CUDA, Ethereum, OpenGL, LLVM & GCC, JVM, ROS

## Hobbies

- Analog and Digital IC hacking
- Videogames (playing and making)
- Racing