

COLE MICKENS

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EDUCATION

UNIVERSITY OF NEBRASKA-LINCOLN

JEFFREY S. RAIKES SCHOOL

August 2008 - December 2012

GPA: 3.615

Bachelors of Science in Computer Engineering with Business Minor

SHAWNEE HEIGHTS HIGH SCHOOL

GPA: 3.94

OSS CONTRIBUTIONS

- **ACS-Engine**: project maintainer, contributions for deployment and upgrade features, CI testing, validation, and more
- **Azure Go SDK**: implemented client certificate auth, IETF draft device auth support
- **Kubernetes**: Azure support for load balancers, pod networking, general bring-up
- **Kubernetes Ingress**: added support for externalizing auth decisions to protect internet-facing services
- **NixOS**: random package maintenance, new modules; helped with some Azure support for NixOps
- **Sway**: libinput configuration support

NOTABLE PROJECTS

- **XB Tunnel**: in high school, built a specialized VPN for bridging remote networks for Xbox local-network play over the Internet (libpcap, etc)
- **CFDynDNS**: implemented a basic CloudFlare dynamic DNS client in PowerShell, Go and Rust
- **azure-archlinux-packer**: built tooling for automated creation and deployment of Arch Linux images in Azure
- **twitlistauth**: reverse proxy that uses membership in a private Twitter list to authorize users (extended to work with Ingress + auth_request and run in a K8s cluster)

SKILLS

PROFICIENT: Azure, Kubernetes (deployment, lifecycle, internals, networking, usage, etc), Docker, Linux, systemd, bash, Go, .NET, Java, HTTP, Git, networking, authentication, Jenkins
FAMILIAR: PHP, Python, Javascript, HTML, CSS, PowerShell

EMPLOYMENT HISTORY

MICROSOFT - AZURE CONTAINER SVC Software Engineer Oct 2015 - May 2017

Added support for Kubernetes to ACS, setup initial CI system, maintained and contributed to the OSS component (ACS-Engine); designed and implemented cluster upgrades; worked with partner teams to support them and to drive improvements across Azure; continued work on the Azure "cloudprovider" plugin for Kubernetes.

MICROSOFT - AZURE LINUX Software Engineer Oct 2015 - Oct 2016

Rewrote the bring-up for Kubernetes on Azure; redesigned and implemented the system used to build Red Hat Enterprise Linux images for Azure; added Azure support to Kubernetes-Anywhere.

MICROSOFT - UNIVERSAL STORE Software Engineer June 2013 - now

Helped build the ingestion system that aggregated data from multiple products groups into the unified Store catalog; designed ways of continuously testing our data during ingestions and deployments; built integrations for partner teams like Office and external companies.

MICROSOFT - WINDOWS STORE Software Engineer (Intern) June 2013 - now

Built support for "consumable" in-app purchases (coins, ammo, etc) in Store applications.

UNL COLLEGE OF JOURNALISM Student Developer Aug 2011 - May 2012

Built a Django application to showcase student journalists' photography and stories; handled deployment onto a PaaS called Gondor.io.

STOCK REALTY AND AUCTION CO Student Developer Aug 2010 - Aug 2011

Implemented a farm equipment auctioning platform (with support for user bidding) in ASP.Net MVC; built for and deployed it to Azure; conducted user feedback studies.

CERNER CORPORATION Developer (Intern) Summer 2011

Built a Maven plugin for detecting transitive dependency version conflicts; implemented PubSubHubbub for an experimental internal project.

CERNER CORPORATION Developer (Intern) Summer 2010

Supported an internal "social" platform, Jive SBS, and the internal company Confluence wiki.

UNL GRADUATE ADMISSIONS Developer Oct 2008 - May 2009

Rewrote an application to run on the newly announced Azure; implemented a farm equipment auctioning platform (with support for user bidding) in ASP.Net MVC; conducted user feedback studies.

AB FLINT MOTORS Freelance Developer Spring 2008

Setup Drupal on a VPS; built a custom plugin to automate the creation of car listings and "car quick info stickers" (used on car lots) in PDF form; built a custom theme with various visual elements for the website.