Matthew Cunkelman

cunkelman.matthew@gmail.com
724.549.2382
github.com/mcunkelman
linkedin.com/in/mcunkelman

About Me: Versatile engineer with almost a decade of professional experience in assessing performance, optimizing processes, and mitigating risks across different industries looking for engaging opportunities. Have proven capabilities for creating and maintaining remote connection by helping the entire division get connected at the beginning of COVID-19 pandemic. Described as a fixer, able to bring my unique collection of skills and experiences to dive deep into projects and provide resolutions. Self-motivated to expand my skills and am currently transitioning to a software-focused role through self-teaching, structured classes, and expanding responsibilities.

ONGOING EDUCATION:

The Community College of Allegheny County
A.S. Software Development
Expected Graduation - 2022

COMPLETED EDUCATION:

The Pennsylvania State University
B.S. Mechanical Engineering
Graduated Class of 2012

VOLUNTEER WORK:

S.Y.STEM Coalition
Website Lead
April 2021 - Present

SKILLS:

- Linux / UNIX
- Web Development
- SQL
- C / C++
- Java
- Python
- Git / GitHub
- Networking
- Code Review
- JAMA
- Cameo

OTHER PROJECTS:

- Built and self hosted a personal website
  ~ mcunkelman.noip.me
- Building small business site for client
- Raspberry Pi Projects
  ~ HomeAssistant
  ~ PiHole
  ~ VPN Server
  ~ Reverse Proxy / Web server
- Woodworking

PROFESSIONAL EXPERIENCE:

Aurora Innovation / Uber ATG   *Systems Test and Analysis*
April 2019 - Present   *Autonomous Systems / Triage Engineer II*

- Streamlined technical and business processes to reduce friction points and create efficiencies between autonomous operational groups and software engineering organizations
- Facilitated the implementation of a Risk Based Reporting Framework to drive actionable output to engineering and leadership, improving the effectiveness of platform testing
- Standardized the approach, tools, and integration between teams to optimize the adoption of requirements-based testing
- Consulted in weekly leads meetings to determine the high level team goals and address blockers for team initiatives
- Utilized the V-Model in collaboration with the Systems Engineering team to develop system requirements to define self-driving vehicle performance expectations in all scenarios
- Redesigned the Failure Mode and Effects Analysis system used in triaging the performance of the software
- Directly supported the efforts of Autonomy Software Engineering team during a burndown sprint to shorten the performance feedback loop and drive rapid development during a business critical phase
- Investigate changes to software to understand new functionality and to predict future performance during structured testing

EQT Production Company   *Reservoir Optimization*
Sept. 2015 - Jan 2019   *Engineer*

- Assessed performance of core assets, provided recommendations for improvement, and defined expectations to upper management
- Discussed analytic results with peers to help solve obstacles associated with emerging technologies
- Responsible for building and modifying databases using various tools, programs, and languages, most frequently: Spotfire, IHS Harmony, and SQL
- Presented critical information to upper management regarding expectations, trends, and issues

Halliburton Energy Services   *Production Enhancement*
June 2012 - Aug. 2015   *Technical Professional (Engineer)*

- Identified and mitigated hardware and software related issues
- Supervised experimental technology implementation and adoption
- Established and implemented procedures to improve processes and technological effectiveness