

Timothy Kelly

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EDUCATION

MICHIGAN STATE UNIVERSITY

BS IN COMPUTER SCIENCE

MINOR IN MATHEMATICS

College of Engineering

Honors College

Dean's List (All Semesters)

Graduated May 2018 | East Lansing, MI

Cum. GPA: 3.95

JACKSON COLLEGE

Fall 2013-Spring 2014 | Jackson, MI

LINKS

Github:// [timjkelly](#)

Github:// [tjkkelly](#)

LinkedIn:// [tjkkelly](#)

COURSEWORK

UNDERGRADUATE

MSU Capstone Experience

Introduction to Python & C++

Algorithm Engineering & Data Structures

Computer Organization & Architecture

Unix Tools and Scripting

Software Design & OOP

Operating Systems & Compilers

Computer Networks & Security

Abstract Algebra & Number Theory

Linear Algebra & Real Analysis

SKILLS

GENERAL

Strong Leader/Mentor • Collaboration •
Written & Verbal Communication • Agile

PROGRAMMING

C# • .Net Core/Standard/CLI • .Net

Framework • Entity Framework •

Git/GitHub • Docker • Kubernetes •

zsh/sh/bash • C/C++ • Python • SQL •

Swagger • Unit/Integration Testing • \LaTeX

• YAML •

Tools:

Azure Portal • DevOps • Azure Streaming

Analytics • Azure DevOps • Azure Service

Bus • Visual Studio (Windows/Mac/Code)

• JetBrains Rider • Kali Linux • TeamCity

• Splunk •

EXPERIENCE

TECHSMITH CORP. | SOFTWARE ENGINEER II

July 2018 – Present | Okemos, MI

- Design, implement, and support scalable and highly available web services/APIs.
- Support and upgrade legacy web services.
- Assist with team member management ensuring other engineers are equipped with the tools they need to be most effective.
- Participating in and taking lead on several high severity issues.
- Lead engineer for replacing a custom aggregation pipeline to use Azure Streaming Analytics to increase service stability, observability, and scalability.
- Established reusable pattern for CI/CD definitions in Azure DevOps.
- Worked across engineering departments to inform and resolve security vulnerabilities in company software.
- Researched, prototyped, and presented new authentication pattern within kubernetes to the Architecture Team.
- Collaborate with and support European-based contractors.
- Lead technical interviewer for several engineering positions and candidates.
- Engaged in company outreach with career fair events and MSU Capstone mentorship.
- Collaborated with Microsoft to establish pattern to automate custom docker image updates.

TECHSMITH CORP. | SOFTWARE ENGINEERING INTERN

January 2016 – July 2018 | Okemos, MI

- Replaced deprecated screen capturing APIs with Microsoft Media Foundation and DirectX APIs within an internally-shared library.
- Designed, implemented, and supported new cloud micro-services from API to data persistence.
- Organized and led the summer Intern Breakout Sessions.

MSU INFORMATION SECURITY | STUDENT SECURITY ANALYST

May 2017 – August 2017 | East Lansing, MI

- Created searches, dashboards, and alerting using Splunk for network activity and anomaly analysis.
- Built custom CI/CD pipelines to enable fast and safe feature deployment.

CONFERENCES

2019 KubeCon CloudNativeCon

AWARDS

2020 TechSmith Recognition: career fair leadership and engagement

2019 TechSmith Recognition: excellent severity response while minimally staffed

2019 TechSmith Recognition: talent recruiting excellence

2017 Finalist in Google Games by Google Inc.

2016 Finalist in Atomic Games by Atomic Object