

# Timothy Kelly

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## EDUCATION

### MICHIGAN STATE UNIVERSITY

BS IN COMPUTER SCIENCE

MINOR IN MATHEMATICS

College of Engineering

Dean's List (All Semesters)

Expected May 2018 | East Lansing, MI

Cum. GPA: 3.94

### JACKSON COLLEGE

HIGH SCHOOL DUAL ENROLLMENT

Fall 2013-Spring 2014 | Jackson, MI

Dean's List (All Semesters)

Cum. GPA: 4.0

## LINKS

Github:// [timjkelly](#)

LinkedIn:// [tjkkelly](#)

## COURSEWORK

### UNDERGRADUATE

Introduction to Python & C++

Algorithm Engineering & Data Structures

Computer Organization & Architecture

Unix Tools and Scripting

Software Design & OOP

Operating Systems

Computer Networks & Security

Compilers

Abstract Algebra & Number Theory

Linear Algebra

## SKILLS

### GENERAL

Leadership • Organization

Written & Verbal Communication

Agile • SAFe • TDD

### PROGRAMMING

C • C++ • C# • Python

.Net Framework • .Net Core

.Net Standard • Entity Framework Core

ASP .Net Core • Splunk • Git • GitHub

Git Labs • Assembly •  $\LaTeX$

MS Media Foundation • NodeJS

Hardware and Software Trans-coding

Unit/Integration Testing

Continuous Integration • Moq

Tools:

Visual Studio • Vim • NetBeans

Unix and Windows Command Line

VSTS • TeamCity

## EXPERIENCE

### TECHSMITH | SOFTWARE ENGINEERING INTERN

January 2016 – Present | Okemos, MI

- Worked on finding and fixing bugs in Snagit's back-end and front-end code. Required reading and writing XAML, C#, and C++.
- Replaced deprecated video capturing APIs with Microsoft Media Foundation and DirectX APIs inside of a shared TechSmith library used across several company products. This allowed for the video capturing library to record at a drastically higher framerate by offloading the heavy CPU load to the GPU. Most of this code was written in C++ using several popular design patterns.
- Worked on developing several new microservices to enable the purchasing of new TechSmith Cloud products. This included setting up the Web API controllers, repositories, databases, and migrations all in the latest .Net Core Frameworks and Entity Framework Core written in C#.
- Assisted in setting up continuous builds and integration in Visual Studio Team Services (VSTS) for the .Net Core Projects triggered from pushing new commits to the git repository.
- All code was rigorously peer-reviewed, approved, and pushed to production. All new code was unit (using Moq) and integration tested where appropriate.
- Organized and led the summer Intern Breakout Sessions where no full-time employees were present. Required organizational and leadership skills.
- Teams were managed using Agile and SAFe techniques. SAFe training was provided which I participated in.

### MSU INFORMATION SECURITY | STUDENT SECURITY ANALYST

May 2017 – August 2017 | East Lansing, MI

- Used Splunk to begin creating a SIEM (Security Information and Event Management) model to monitor and alert network security events campus-wide.
- Generated searches, dashboards, and alerts from various log types to analyze network activity and anomalies.
- Setup deployments and version control using git and Git Labs in multiple live environments. This keeps servers in parity and allows for safe deployments with rollbacks.

### TECHSMITH CUSTOMER SOLUTIONS INTERN

August 2014 – January 2016 | East Lansing, MI

- Provided end-users of TechSmith Products an excellent customer experience. Required outstanding and professional written and oral communication skills.
- Worked on side projects for other teams in any down time. These projects required self-motivation to get them done in a timely manner.

## AWARDS

2017 Finalist in Google Games by Google Inc.

2016 Finalist in Atomic Games by Atomic Object

## SOCIETIES

2017 National MSU's Association for Computing Machinery (ACM) Co-President

2016 National MSU's ACM Event and Sponsorship Coordinator

2016 top 12%ile Tau Beta Pi Engineering Honor Society

2014 MSU Honors College