# Matthew Cech Software Engineer

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## Tools Often Used

Visual Studio, GCC
Unity 3D
Git, GitFlow
Jira, Phabricator
Amazon Web Services
Caffeinated Beverages

## Languages

C / C++
C#
JavaScript
Java
Zilch (C# like)
Lua

## Tools Created

ASCIIPlayer: C++ Audio Visualizer
CppEvents: C++ Event API
ConsoleUtil: C++ Console drawing API
CppChat: C++ Networking base
TimeCheck: C# Visual Time Tracking
Islands: JavaScript Map generator

## DigiPen · 2016 - Present

**Software Engineer Intern - Dragon Drop - Electron.js, Arduino** · *Team of 4*
Block based programming environment for Phaser.js and Arduino
- Developed and iterated on C and JavaScript IDE features
- Expanded ability to learn and internalize new tools and development techniques

**ProjectFUN Lead Teacher** · *Class of 25*
Taught and developed curriculum for ProjectFUN summer classes

**Teaching Assistant**
Assisted with introductory and advanced networking classes

## Cures and Curios (DigiPen Student Team) · 2017 - 2018

**Web and Tools programmer - Cures & Curios - AWS, Unreal** · *Team of 15*
3D VR potion crafting game for HTC Vive
- Managed task tracking and management software for a larger team
- Adapted to fill a role of marketing and outreach as needed, familiarizing myself with web tools.
- Constructed networked data collection systems with C++ and NodeJS

## Giraffic Games (DigiPen Student Team) · 2015 - 2017

**Network and Tools programmer - Bittorio - Unity 3D** · *Team of 9*
3D Competitive Puzzle Game, coming to Xbox Live Creators Program in 2018
- Designed and implemented custom multiplayer server layout using Node.js, socket.io and Unity
- Created generic menu and input systems for multiple input types
- Marketed and represented product at PAX, TwitchPDX, and preview events

**Engine and Audio Programmer - Grizzly Beats - Custom C++** · *Team of 5*
2.5D cross-platform arena brawler with bears in a dance club
- Designed and programed core system architecture in C++ using a component-based engine design
- Implemented audio system with visualization in mind using FMOD Programmer API

## Cogwheel Clinic · 2015 - 2016

**Curriculum and Technical Consultant**
Created gamified social skills lessons to assist children with autism

## Education · 2014 - April 2018

**Bachelors of Science in Computer Science**
DigiPen Institute of Technology
- US FIRST Scholarship recipient