# Matthew Kennedy

**Computer Scientist**

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## Experience

### Stryker
**Advanced Software Quality Engineer**
*10/2019-Current, Kalamazoo, MI*

- Develop software according to SDLC with primary points of focus on planning, defining requirements, testing, and deployment
- Co-develop software solutions by conducting research to understand user needs, data usage, systems flow, work processes, problem areas and bug reporting

### Intel
**STTD Embedded Systems Engineering Intern**
*05/2019–07/2019, Aloha Campus, OR*

- Utilize ASP.NET, bootstrap, JQuery, and JavaScript to create a Web UI to interact with an MSSQL database through MVC
- Constructing and maintaining MSSQL database using the Code First Entity Framework approach
- Collaborated with teams on large code bases to create quality products using a variety of tools such as C++, C#, Design Patterns, and .NET

### QST Consultations
**Clinical Data Management Specialist I**
*05/2018–05/2019, Allendale, MI*

- Created post-fix notation test cases to validate databases used in clinical trials
- Performed quality assurance checks and black box testing in clinical data systems such as Medidata

## Education

### Bachelor of Science in Computer Science
Grand Valley State University

*08/2017 – 05/2019*

- GPA: 3.90, Magna Cum Laude

**Certifications**

- Oracle Certified Associate Java SE 8 (OCA)

## Skills

### Tools/Frameworks
Eclipse, NetBeans, MS Visual Studio, JUnit Testing, Git, GDB, Android Studio, IntelliJ, Entity Framework, .NET, Bootstrap, MSSQL, Firebase, Linux, Windows, Perforce, onePLM

### Languages
Java, C, C++, C#, Python, R, Bash, AutoIt, MIPS assembly, SQL, JQuery, CSS

## Notable Projects

### Java – JUnit Test Creator (in development)
- Creates JUnit test cases for primitive fields in a Java class, as well as Strings
- Automatically pulls field data in given a class file to search through

### Python/C++ – GungeonAI (in development)
- AI that plays Enter the Gungeon using object detection
- Decisions made based on comparisons using Haar Cascade classifiers for objects

### Android Studio/Java – Informed Autonomous
- Android Application used as prototype for autonomous shuttles in the city of Grand Rapids
- Purpose is to provide interface with users to communicate with autonomous shuttles

## Volunteer Service

Over 300 hours dedicated towards multiple community service projects since 2010, including domestic and international mission trips through local church

## Interests

Artificial Intelligence        Cooking/Baking

Operating Systems        Video Games