EDUCATION

**Loyola University Chicago** / *Chicago, IL* 08/2018 – Current

* **Major:** Software Engineering, B.S. (GPA 3.5)
* **Graduation date:** May 2020

WORK EXPERIENCE

**Research Assistant & CS Tutor** / *Loyola University: Chicago, IL*  07/2019 – Current

* Analyzed videos of CPS courses, ensuring the curriculum and research standards were upheld
* Tutored Loyola Computer Science students at the Loyola tutoring center

**Java Instructor** / *Digital Media Academy: Chicago, IL* 06/2019 – 08/2019

* Taught fundamentals of the Java programming language using project-based learning
* Structured a curriculum with interesting hands-on projects

**Android Research Developer** / *Loyola University: Chicago, IL* 05/2019 – 06/2019

* Collaborated with three other software engineers in person, full-time for a month
* Created customizable sign-language-based app for physically and vocally disabled people
* Produced an Android system called TalkMotion (See under ‘projects’)

PROJECTS

**PianoBoard** – *personal project*

<https://github.com/Jkotheimer/PianoBoard.git>

* Includes a studio page with a piano GUI, which is playable by typing the client keyboard.
* Allows its user to create a profile under which they may create projects to write songs.
* Hosted from Raspberry Pi using Apache Web Server
* **Utilized: Java, Apache CXF/ Tomcat/ Web Server, HTML/CSS/JavaScript, MySQL, GIT**

**E-commerce Website –** *Team project with 2 other software engineering students*

<https://github.com/Jkotheimer/Web_Services_P2.git>

* Developed the service layer, domain layer, and persistence layer of an E-commerce website
* Follows RESTful HTTP protocol
* **Utilized: Java, Apache Server w/ CXF, Apache Maven, Junit, mySQL, Hibernate, AWS, GIT**

**TalkMotion** – *Team project with 3 other software engineering students*

<https://github.com/Jkotheimer/Gesture-Recognition-Android-App.git>

* Allows user to create custom text to speech commands assigned to certain hand gestures
* Intended for cerebral palsy patients with limited mobility to tailor their sign language to the limited number of movements they can make
* **Utilized: Java, SQLite, Android Studio, object state machines, machine learning, GIT**

**Word Puzzle Solver** – *Team project with 3 other software engineering students*

<https://github.com/Jkotheimer/Chromium_Titanium_Pigeon_Sticks.git>

* Wrote a program that read the specifications for logic puzzles & automated the solving process
* **Utilized: Java, Apache Maven, JUnit test suite, Jackson databind framework**

SKILLS

* Extensive knowledge of **Agile development process**
* Experience with Java Android production & Java web service development using **RESTful API**
* Productive user of **Unix Bash** with server technologies
* Effective user of **Git** using both GitHub and Bit Bucket in development teams
* Proficient Programming Languages: **C, C++, Python, Java, SQL, HTML/CSS/JavaScript**