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# Jack Kotheimer

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<https://jackkotheimer.com>  
<https://github.com/Jktheimer>

## EDUCATION

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

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

## WORK EXPERIENCE

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**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

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**PianoBoard** – *personal project*

<https://github.com/Jktheimer/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/Jktheimer/Web\\_Services\\_P2.git](https://github.com/Jktheimer/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/Jktheimer/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/Jktheimer/Chromium\\_Titanium\\_Pigeon\\_Sticks.git](https://github.com/Jktheimer/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

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- 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**