

# Jack Kotheimer

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## SOFTWARE ENGINEER IN CHICAGO, IL

**PHONE:** 708-710-6649 | **EMAIL:** [jkotheimer9@gmail.com](mailto:jkotheimer9@gmail.com) | **PORTFOLIO:** <https://jackkothheimer.com>  
**GITHUB:** <https://github.com/jkotheimer/> | **LINKEDIN:** <https://www.linkedin.com/in/jack-kothheimer/>

I am a firm believer in result-oriented work - It only took me three years to complete my undergraduate degree. That is not only because I set a goal to do so, but because I dug in and worked hard, all while remaining on the dean's list and collaborating on projects with other developers as much as possible. I truly am passionate about what I work for.

LANGUAGES	FRAMEWORKS	DATABASES	TOOLS
<ul style="list-style-type: none"><li>• Java</li><li>• Bash</li><li>• JavaScript</li><li>• HTML5/CSS3</li></ul>	<ul style="list-style-type: none"><li>• C</li><li>• PHP</li><li>• Python</li><li>• SQL</li></ul>	<ul style="list-style-type: none"><li>• Apache CXF</li><li>• Node.js</li><li>• Flask</li><li>• Hibernate</li></ul>	<ul style="list-style-type: none"><li>• MySQL</li><li>• Firebase</li><li>• MongoDB/Atlas</li></ul>
<ul style="list-style-type: none"><li>• Git</li><li>• Linux</li><li>• AWS</li><li>• SSH</li><li>• Apache</li></ul>			

## WORK EXPERIENCE

**Computer Science Tutor**, Loyola University Chicago, Chicago, IL, November 2019 – May 2020

- Tutored Loyola Computer Science students on an appointment basis (via Zoom as of March)

**Research Assistant**, Loyola University Chicago, Chicago, IL, July 2019 – December 2019

- Analyzed videos of CPS courses, ensuring curriculum and research standards were upheld

**Java Programming Instructor**, Digital Media Academy, Chicago, IL, June 2019 – August 2019

- Taught fundamentals of the Java programming language to high school students
- Focused on advocating problem solving strategies
- Structured a curriculum with hands-on project based learning

**Android Research Developer**, Loyola University Chicago, Chicago, IL, May 2019 – June 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"™)

## EDUCATION

**Loyola University Chicago**, B.S. Software Engineering — 2020

## PROJECT EXPERIENCE

**Pianoboard** — <https://jackkothheimer.com/projects/#pianoboard>

- Created a RESTful web service to create music projects which store and process client-made MIDI recordings
- **Utilized:** PHP, Node.js, Apache HTTPD, HTML/CSS/JavaScript, MySQL, Bash, GIT

**ChatApp** — <https://jackkothheimer.com/projects/#chatapp>

- Developed a customer service based chatting application focused on programmatic database manipulation
- **Utilized:** Python, Flask, Jinja2, HTML/CSS/JavaScript, MySQL, Bash, GIT

**E-Commerce Website** — <https://jackkothheimer.com/projects/#ecommerce>

- Built a RESTful API for a barebones e-commerce website
- **Utilized:** Java, Apache Server w/ CXF, Apache Maven, Junit, MySQL, Hibernate, AWS, GIT

**TalkMotion** — <https://jackkothheimer.com/projects/#talkmotion>

- Collaborated on an Android app to translate sensor readings from hand gestures to text-to-speech commands
- **Utilized:** Java, SQLite, Android Studio, object state machines, machine learning, GIT