

Jack Kotheimer

SOFTWARE ENGINEER IN CHICAGO, IL

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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
◆ Java	◆ C	◆ Apache CXF	◆ MySQL	◆ Git
◆ Bash	◆ PHP	◆ Node.js	◆ Firebase	◆ Linux
◆ JavaScript	◆ Python	◆ Flask	◆ MongoDB/Atlas	◆ AWS
◆ HTML5/CSS3	◆ SQL	◆ Hibernate		◆ SSH
				◆ Apache
EDUCATION				

University of Illinois at Chicago, M.S. Electrical and Computer Engineering – Expected 2022
Loyola University Chicago, B.S. Software Engineering — 2020 (CAS Dean's list)

WORK EXPERIENCE

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

- ◆ Tutored Loyola Computer Science students on an appointment basis
- ◆ Ensured high quality aid to all students both during and outside work hours

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

- ◆ Analyzed videos of CPS courses, ensuring curriculum and research standards were upheld
- ◆ Participated in a series of seminars determining the most effective educational techniques for computer science

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')

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
- ◆ Implemented a fully secure registration/login service
- ◆ All CRUD operations occur in an isolated Node.js API, completely uncoupled from the webpage server
- ◆ **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