

KATIE KO

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EDUCATION

University of Illinois at Urbana-Champaign

Urbana-Champaign, IL

B.S in Computer Science – May 2020

Relevant Coursework:

CS 126 : Software Studio Design

CS 173 : Discrete Structures

CS 225 : Data Structures

CS 233 : Computer Architecture

CS 374 : Algorithms & Models of Computation

CS 357 : Numerical Methods

CS 411 : Database Systems

CS 465 : User Interface Design

WORK EXPERIENCE

JPMorgan Chase & Co

Software Engineer I

Chicago, IL

July 2020 – Current

- Resolving dependency vulnerabilities in team projects and performing end-to-end testing for changes
- Collaborating within an Agile Ecosystem to maintain and grow the firm's Alerts and Subscriptions system
- Building the functionality of a redesigned application assisting in the management of customer alert subscriptions
- Migrating and revising code from a decommissioned internal service into team's repository

Amazon

Software Development Engineer Intern

Seattle, WA

Summer 2019

- Built a web application with an internal Java Spring-based framework based off of deprecated Python-based internal tool for scalability and reusability of service calling classes
- Setup pipeline & environment for application, created AWS S3 accounts for application's data storage, and became familiarized with different internal frameworks/services used for project
- Implemented Frontend and Backend of a feature in internal tool using jQuery, Bootstrap, and Java

JPMorgan Chase & Co

Summer Tech Analyst

Chicago, IL

Summer 2018

- Worked on a newly released mobile app for suppliers using React JS, JavaScript, Java, and Cordova Apache
- Optimized performance, implemented biometric features such as fingerprint authentication, facial recognition, & iris scanning by integrating Cordova plugins, and created a proof-of-concept for NFC implementation within the application
- Worked toward making the application compatible to both Android and iOS platforms while getting familiarized with the Cordova framework
- Fixed and redesigned UI alongside a user-experience professional; made decisions on the layout of page features and created new pages for NFC implementation and fingerprint authentication

Capital One iDCL

Software Engineer Intern

Champaign, IL

Fall 2017

- Worked on an ongoing web project mainly focused on Front-End Development using Ruby on Rails
- Project aimed to optimize and renovate the internal budgeting tool for Capital One administrators in need to keep track of company's resources
- Built a button where its function was to take existing employee records' data and make a duplicate resource record in the system that was editable; the button also managed different conditions associated to specific attributes that were being changed

TECHNICAL SKILLS

Java: Advanced – 4+ years of experience with this language

Python: Proficient – Over 1 year of experience, used for personal coding

Spring Boot: Proficient – Over 1 year of experience through internships and job

C++: Intermediate – Semester course taken with this language

JavaScript, HTML, CSS: Intermediate – Used during Summer Internship

Bootstrap: Intermediate – Used during summer internship and recent fall internship

PROJECTS

Billmo

Software Studio Design

- Focused on object-oriented programming using Android Studio + Firebase for authentication/database management to develop a mobile application that functioned similarly to apps like Venmo and Quickpay for more than two people
- Developed a mobile application that functioned similarly to apps like Venmo and Quickpay; allowed groups of people to split payments among a specified count of people and price

ACTIVITIES

NU BuildHer Hackathon

April 2017

Participant

Evanston, IL

- Interacted with fellow female coders in Chicago's first ever all-women's hackathon
- Built a mobile app using Android Studio and different plugins to create a user-friendly budgeting tool targeting young college students; tracked what type of expenses the user spent money on and sent alerts if user went above set budget

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JOB EXPERIENCE

Kumon North America

Employee

Lincolnshire, IL

June 2014 – July 2015

- Taught Pre-K – Jr High School Students higher level Math, Reading, Science, and English to aid them in critical thinking

Filed the information of each student and recorded grades for the children's area

ACT Summer Class

Teacher Assistant

Deerfield, IL

IL

Summer 2016, 2017

- Proctored/graded practice tests, designated class work in ACT workbooks during 3-hr class sessions while supervising the students
- Organized test files, recorded scores in Excel sheets that included graphs of students' progress, taught/prepped students for the ACT Math portion to help students improve test scores [by an average of 6 points]

Tutoring

Self-Employed

Buffalo Grove, IL

June 2014 – July 2016

- Personal jobs acquired over the school year and summers. Taught Math, English, and Science to junior high students within my local community as a means to help improve their scores and integrate their academic level better

AWARDS

AP Scholar with Distinction

Granted to students who receive an average score of at least 3.5 on all AP Exams taken, **and** scores of 3 or higher on five or more of these

ACTIVITIES

AESHS National Honors Society

Director of Media

Lincolnshire, IL

August 2015 – May 2016

- Created commercials for NHS to be presented on the TVs around the school
- Designed flyers to post on bulletins around the school for different NHS events (i.e. Biannual Blood Drive, Spirit Fest, etc.)
- exams

AESHS Key Club International

Secretary

Lincolnshire, IL

August 2015-June 2016

- Organized events for outreach within the local community such as dances at nursing homes, tutor sessions at middle schools, etc. to encourage high school students to participate more in helping the community
- Brainstormed and facilitated different fundraisers for local charities to integrate younger students into different parts of our local community