Sarah Koop

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Education

University of Chicago   *December 2019*
M.S. IN COMPUTER SCIENCE   *GPA: 3.9/4.0*
- Specialization: Software Engineering
- Relevant Coursework: Discrete Math, Concepts of Programming, Algorithms, Databases, Python Programming, iOS Application Development (Winter 19), Computer Systems (Winter 19), Web Development (Winter 19)

University of Notre Dame   *May 2017*
B.B.A. IN INFORMATION TECHNOLOGY MANAGEMENT   *GPA: 3.9/4.0*
- Concentration: Business Analytics
- Relevant Coursework: Systems Analysis and Design, Networking and Security, Application Development
- Graduated *magna cum laude* and earned Hamilton Award for highest GPA in IT, Analytics, and Operations Department

Technical Skills

Languages	Python, Java, SQL, VBA, HTML/CSS, Swift (familiar)
Databases	MySQL, Oracle SQL Developer
Frameworks & Tools	Bootstrap, Git, LaTeX, , Xcode, Tableau, Visio

Work Experience

KPMG   *Chicago, IL*
IT AUDIT & ASSURANCE ASSOCIATE   *June 2017 - June 2018*
- Led or participated in over 50 process walkthroughs and collected supporting evidence to understand and document the design and effectiveness of general IT controls, IT application controls, and data interface controls
- Identified and documented failure of internal controls and assisted clients in developing remediation plans
- Received four "Encore Awards" for going above and beyond to achieve results on client engagements

IT AUDIT & ASSURANCE INTERN   *June 2016 - August 2016*
- Created over 100 work papers to explain and document the design and testing of general IT controls
- Built comprehensive spreadsheet to monitor project status and be used as template in future work

University of Notre Dame   *Notre Dame, IN*
TEACHING ASSISTANT FOR SYSTEMS ANALYSIS & DESIGN   *August 2017 - May 2017*
- Strengthened ability to explain technical concepts through assisting students course on relational database design and SQL

Projects

Chicago Restaurant Search

SQL - MYSQL - PHP
- Designed a relational database schema to hold Chicago restaurant data including locations, deals, and events
- Developed SQL queries and stored procedures for obtaining information from the database and inserting, modifying, or deleting data within it
- Created a frond-end site allowing users to interact with the database for data manipulation and retrieval

Code for Good

SWIFT - MYSQL
- Worked with team using agile methodologies to build prototype of mobile application solution for a non-profit educational organization during JPMorgan's Code for Good competition
- Designed a relational database schema to maintain student, parent, grade, and program data

Billboard Sales System

VBA
- Worked with team to create an application for entering new customer information and managing billboard locations and time slots for a local company

Dorm Room Assignment Database

SQL - ORACLE SQL DEVELOPER
- Designed a relational database schema for choosing dorm rooms and roommates at Notre Dame
- Created report queries to obtain relevant information from the dorm room assignment database