Sarah Koop

☎ 952-426-8819 | ✉ sarahkoop2@gmail.com | ⌂ www.sarah-koop.com | ⬡ skoop12 | ▣ sarahkoop | ⚲ Chicago, IL

Education

University of Chicago *December 2019*
M.S. in Computer Science *GPA: 3.9/4.0*
- Relevant Coursework: Algorithms, Databases, Python Programming, Computer Systems, Web Development, iOS App Development, Distributed Systems (Spring 19), Android App Development (Spring 19), Applied Software Engineering (Spring 19)

University of Notre Dame *May 2017*
B.B.A. in Information Technology Management *GPA: 3.9/4.0*
- Graduated *magna cum laude* and earned Hamilton Award for highest GPA in IT, Analytics, and Operations Department

Technical Skills

Languages Python, Swift, SQL, HTML/CSS, Java, JavaScript
Databases MySQL, Oracle SQL Developer
Frameworks & Tools Bootstrap, jQuery, React, 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

Stock Portfolio Manager
JavaScript - React - HTML/CSS - Bootstrap
- Created a desktop and mobile adaptive site layout using HTML/CSS and Bootstrap to allow users to manage a personal stock portfolio
- Used JavaScript and React to develop functionality to view total value, sort and see detailed stock holdings, and add/sell stocks within the portfolio
- Incorporated continual stock price changes through querying the IEX Stocks API and persisted portfolio data using HTML5 local storage

Weather App for Kids
Swift
- Developed an iPhone/iPad compatible iOS application to help children understand what outdoor clothing they need for different weather conditions
- Utilized the Open Weather API to gather and present real-time weather data for the user's current or searched location
- Built features to display interactive list of required outdoor clothing based on the retrieved weather data

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