Robby Singh

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Education:

University of Houston, Houston, TX

- B.S. in Sociology, Minor in Computer Science   *December 2021*
- Related coursework:
  - Computer Science and Programming (Python); Introduction to Programming (C++); Programming and Data Structures (C++); Computer Organization and Architecture; Interactive Computer Graphics; Introduction to Computer Networks; Programming Languages and Paradigms

Skills:

- Languages: C++, Python, Java, JavaScript, Kotlin, Scala, HTML/CSS, SQL
- Frameworks: Flask, Django
- Version Control: Git, GitHub, SVN
- Technology: CLion, PyCharm, IntelliJ IDEA, Python IDLE, MySQL, SQLite, SQLAlchemy, Gradle, Atom, Postman, TortoiseSVN, Wireshark, PuTTY, Microsoft Office

Personal Projects:

- Python REST API with Flask:
  - Flask REST API built inside a Python Virtual Environment that follows the CRUD API principles: Creates, Reads, Updates and Deletes data.
  - Program focuses primarily on products, SQLAlchemy handles each product item and organizes them in terms of product ID, name, description, price, and quantity.
- Polls App with Django:
  - Django REST API built inside a Python Virtual Environment that follows the CRUD API principles.
  - Web application that works on both a client and administrator interface. Clients are able to access a webpage where they can cast votes on a series of polls and view the results immediately. Administrators have the ability to access/update/delete both questions and answer choices as they please.
- Domain Specific Language Project (Kotlin):
  - Internal DSL written in Kotlin that organizes a meeting based on the following details: meeting name, start and end times, date, and participant(s) roster.
  - Project was created in a Gradle build environment with the IntelliJ IDEA IDE. Alongside the main file is a test file with a series of unit tests to verify the desired output for each line of the DSL.
- *Goodfellas (1990)* Interactive Quiz:
  - Python program that incorporates file handling (reading, writing), user-input and user-defined functions to produce an interactive quiz.