

Saurav Singh

☎ 717-538-6386 | ✉ sauravmsingh@gmail.com | 🏠 www.sauravsingh.me | 📷 saurav-singh | 🌐 saurav-

Education

Drexel University

Philadelphia, PA

B.S. IN COMPUTER SCIENCE | GPA - 3.7

September 2017 - June 2020

- Concentrations in Artificial Intelligence and Human Computer Interaction

Skills

| | |
|---------------------------|---|
| Programming | Python, C++, JavaScript, TypeScript, Java, C#, Dart, HTML, CSS |
| Front-end | React, Redux, D3, Flutter, Bloc, Streamlit, Bootstrap, Jekyll, SASS |
| Back-end | Express, Flask, Socket, GraphQL, REST API |
| ML Frameworks | Numpy, Pandas, Sklearn, Pytorch, ML5, TensorFlow, Keras |
| Other Technologies | SQL, Firebase, Hive, GraphQL, Docker, Git, Bash |

Work Experience

Bentley Systems

Philadelphia, PA

SOFTWARE ENGINEER INTERN

April 2019 - September 2019

- Developed and maintained an icon database web-app for the internal UX website using React and TypeScript
- Worked closely with the UX team to implement the UI mockup designs into responsive and interactive web components
- Optimized the app by implementing lazy-loading component to smoothly handle over 8000 icons in an infinite-scroll view
- Wrote scripts by utilizing Microsoft Graph API to automate the deployment when new icons were added / modified
- Utilized Git for version control and Azure Devops for CI/CD and deployment

Your Part-time Controller LLC

Philadelphia, PA

DATA VISUALIZATION CO-OP

April 2018 - September 2018

- Designed and built interactive and real-time web-based dashboards utilizing Quickbooks API, D3.js and React
- Created custom visual plugins for Power BI as required by the data visualization team using D3.js
- Built an web-app to perform spatial analysis using clustering (K-Means and DBScan) on non-profit org. geolocation data

Drexel University

Philadelphia, PA

TEACHING ASSISTANT

September 2018 - June 2020

- Courses: Python Programming, Web Development, Computer Science Foundation, GUI
- Conducted weekly labs and office hours to assist students with course materials and graded their coursework

Projects

Frnd Caller

TECH STACK: FLUTTER, FLASK, WEBRTC, SOCKETIO

- Developed a peer-to-peer video call application using Flutter and WebRTC framework
- Created the backend server using Flask along with SocketIO for handling the signaling process

Music Genre Classifier

TECH STACK: PYTHON, TENSORFLOW, KERAS, LIBROSA

- Implemented a CNN model to classify 10 music genres and achieved accuracy of 70% using Python and Keras
- Preprocessed the raw audio data into MFCCs using Librosa and FFT

FTP Client and Server

TECH STACK: PYTHON, SOCKET

- Created an FTP client and server by following the RFC 959 documentation using Python and Socket
- Implemented multi-threading in the server to handle multiple clients concurrently along with a custom logger

Awards and Interests

- A. J. Drexel Scholarship, Deans List, Isaac L. Auerbach Innovation Award 2020
- Fingerstyle Guitar, Photography, Travelling, Gaming, Poker, Chess