

SAURAV SINGH

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EDUCATION

Drexel University - Philadelphia, PA

Graduation - June 2020

- Bachelor of Science in Computer Science | **GPA - 3.7**
- Concentrations : Artificial Intelligence & Human Computer Interaction
- Teaching Assistant : Python Programming [CS 172], Web Development [CS 375], GUI [CS 338]

EXPERIENCE

Bentley Systems - Software Engineer Intern

April 2019 - Sept 2019

- Developed and maintained an icon database web-app from scratch using React and TypeScript
- Optimized the app by implementing lazy-loading component to smoothly handle over 8000 icons
- Wrote scripts to download icons to the server from MS Sharepoint then group them by their format
- Utilized Microsoft Azure Devops for CI/CD and deployment and Git for version control

YPTC LLC - Data Visualization Intern

April 2018 - Sept 2018

- Created custom data visualizations and interactive dashboard of financial data using React and D3.js
- Built a platform with React to support Power BI charts to showcase the data visualizations created by the team
- Developed an app to perform spatial analysis on non-profit organization data by using K-means clustering

PROJECTS

EXATAS - Python, PyTorch, SKLearn, NLTK, SQLite

Senior Research Project

- Produced a dataset which simulates how humans would search for a trusted publication from various sources
- Currently analyzing the data by applying unsupervised learning algorithm to different variations of our dataset

FOCUS - Flutter, TensorFlow

GitHub

- Designed and developed a To-Do list mobile app using Flutter that rewards the user for task completion
- Implemented a computer vision module that verifies task completion using SSD MobileNet with TensorFlow

Symmetry Sketch - Java, Canvas

GitHub

- Developed an application allows users to draw symmetric art in real-time
- Utilized MVC architecture and implemented features to save, load and export the canvas as an image

KEY SNOOPING - Python, PyAudio, Numpy

GitHub

- Developed and trained a real-time SVM classifier that predicts the keys being pressed on a keyboard
- The final program was able to predict each keys with an accuracy of 80%

SKILLS AND ACTIVITIES

Technical Skills

- **Programming Languages** • Python • JavaScript • Java • C++ • HTML • CSS • Kotlin • Dart
- **Framework / Tools** • React • D3.js • Node • Express • Flask • Git • Android Studio • Flutter

Activities

- Fingerstyle Guitar • Photography • Soccer • Gaming • Poker