

SARTHAK AWASTHI

sarthak7awasthi@gmail.com | (445) 345-0741 | sarthak7awasthi.github.io

EDUCATION

Drexel University | Bachelor of Science in Computer Science

Philadelphia PA

- GPA: 3.00

Graduation: June 2024

EXPERIENCE

CurveBeam LLC | Software Engineering Co-op

Hatfield PA | **September 2020 – March 2021**

- Used OOP techniques to enhance efficiency of company's bone density measurement & visualization tool
- Decreased runtime of tool by 30% through optimized search algorithm and more efficient data structures
- Built a dynamic report generator using Python with plots & graphs for displaying 3D X-Ray renderings of data

Bentley Systems | Software Engineering Co-op

Philadelphia PA | **September 2021 – March 2022**

- Worked on ProjectWise application which allows teams to access project contents securely and efficiently
- Used React TypeScript to create multiple UI components, and .NET for implementing several REST APIs
- Added internal localization, and assisted in migrating the existing functionalities to a standalone application

PROJECTS

Recognize & Solve

- Built a Python web application that solves user provided sudoku and complex maze images within seconds
- Trained a Keras Sequential model to recognize digits, and used Backtracking to solve sudoku as a 2-D matrix
- Used Dijkstra's algorithm to find the shortest path and OpenCV & matplotlib to display solved path on maze

See You Soon

- React web app to keep users and their loved ones safe by alerting them to be cautious in high-crime areas
- Relies on static 911 call data to mark unsafe coordinates and sends an alert when user comes in the vicinity
- Uses Pusher to update Google Maps location and trigger push notification when a friend enters the channel

Campus Review

- Built web app for Drexel students to check out and review campus buildings, residence halls & hangout spots
- Used React for building frontend and integrated it with backend built using MongoDB, Express and Node.js

SKILLS

- | | | |
|----------|------------------------|-----------|
| • Python | • React / React-Native | • AWS |
| • Java | • Express | • MongoDB |
| • C | • Flask | • MySQL |