Parth Shelgaonkar

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Education

Fall 2016 - Spring 2020

Purdue University, West Lafayette IN
- Bachelors of Science in Computer Science (Class of 2020)
- Relevant Coursework- Data Mining and Machine Learning, Into. to Database Systems, Operating Systems, Systems Programming, Software Engineering, Competitive Programming, DS & Algorithms, Computer Architecture, C Programming, Fundamentals of CS, Intro. to OOP (Java), Linear Algebra, Multivariate Calculus, Intro. to Statistics

Experience

May 2018

Findability Sciences | Data Science Intern
- Worked on NLP project for sentiment analysis on Indian languages like Hindi and Marathi.
- Implemented API for SVM model based classifier in JavaScript.

Aug, 2017 – Present

Purdue University | Undergraduate Teaching Assistant
- Teaching Assistant for CS 354 (Operating Systems), CS 252 (Systems Programming), CS 251 (Data Structures and Algorithms), CS 240 (C Programming) & CS 193 (Freshman Tools & Resources).

Projects

May 2018

packR
- Data compression and zipping utility written in Rust.

April 2018

Vendez Vous
- Developed backend for networking web app in Node JS and integrated Mongo DB for user data persistence.

Jan. 2018 – Apr. 2018

xpac
- Developed a cross-platform package manager for the *nixes.
- Developed the client-end command line utility and repo server backend in C/C++.
- Designed and implemented the client-server protocol for package transmission and metadata schema for package management and dependency trees.

Dec. 2017 – Jan. 2018

DRACO
- DRAwing COmpression library to compress images generated using SCRIBBLE by carving outlines to map shapes written in C.

Nov. 19-20, 2016

FreeClicker
- Developed the Android version of the app during Hack OH I/O, at Ohio State Univ.
- FreeClicker is a free and open source alternative to the iClicker which can be used to take quizzes and polls in a classroom.

Oct. 15-16, 2016

CelebFinder
- Implemented Chrome extension that recognizes faces of famous personalities during Hello World at Purdue Univ.
- CelebFinder uses Microsoft's Cognitive Sciences API to recognize the face in a YouTube video and scrapes Wikipedia page about the person to give info. It won the best web-app at the hackathon.

2015

Scribble
- Designed MS Paint like scribble pad using the Borland Graphics Interface Library in C (DOS).
- Implemented a newer way to save images drawn by the user by analyzing and mapping only the foreground to reduce memory footprint of the saved files.
- Ported legacy code to X11 for Linux and other Unix like systems.

2014 - 2015

Automated Home Security Solution
- Designed IoT based home automation and security system using an Arduino microcontroller.
- Implemented ultrasonic sensor-based security to scan rooms and send intruder alerts to users over Wi-Fi.

Programming Skills/Technologies

Proficient in C/C++, Rust, Java & JavaScript
Familiar with Python, Shell scripting, ARM assembly, SQL, HTML & CSS