

# 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, Intro. 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