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 – Systems Programming, Software Engineering, Competitive Programming, DS & Algorithms, Computer Architecture, C Programming, Fundamentals of CS, Intro. To OOP (Java), Multivariate Calculus, Intro. to Statistics

Experience

Aug, 2017 – Present

Purdue University | Undergraduate Teaching Assistant
- Teaching Assistant for CS 240 (C Programming)
- Teaching Assistant for CS 193 (Freshman Tools & Resources)

Sept, 2016 – Nov, 2016

Coder Dojo
- Volunteer for Coder Dojo at the Anvil (Purdue Univ.) as a part of the Service Learning Outreach program
- Assisted in teaching the CS Exploring Post course (Python) offered by the Dept. of Computer Science.

Projects

Jan. 2018 – Present

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.

April, 2017

IRC Chat
- Developed an IRC chat messenger app with separate rooms and saved user profiles with real time updates.
- Implemented the server and client in C using the GTK library for GUI.

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.

Nov. 4-6, 2016

BigDoc
- Designed a wearable for collecting health data using an Arduino mini and accelerometer & gyroscope during Arch Hacks at Washington Univ. in St. Louis.

Nov., 2016

FoilMaker
- Developed a desktop version of Psych! in Java.

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

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