Rohan Rajpal

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EDUCATION

INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY DELHI

BTECH IN COMPUTER SCIENCE ENGINEERING

July 2017 - May 2021 (Expected) Delhi, India

Cum. GPA: 8.78 / 10.0

SKILLS

PROGRAMMING

Over 5000 lines:

C++ • Python • Java

• QML and Qt-C++

Over 1000 lines:

C • Matlab

Familiar:

Android • MySQL • LATEX • Shell

COURSEWORK

Deep Learning(Ongoing)

Interactions(Ongoing)

Internet of Things (IoT) (Ongoing)

Machine Learning

Computer Networks

Analysis and Design of Algorithms

Database Management System

Discrete Maths

Operating Systems

Data Structures and Algorithms

Probability and Statistics

Linear Algebra

LEADERSHIP

Campus Lead, Developer Student

Clubs(DSC) by Google Developers

- Held a workshop in DevFest 2019 by Google Developers with 50+ participants
- Attended the India DSC Summit 2019 by Google as a DSC Lead

Student Mentor at IIITD

• Mentoring 7 freshmen and helping them with their academic, social and personal issues

EXPERIENCE

VIDEOLAN | Google Summer of Code Student | Project Link

June 2019 - August 2019 | Delhi, India

- Redesigned the VLC Media Player for Linux/Windows platform using Qt/C++ and QML.
- Focused on designing and developing more fluid and intuitive interactions and wrote production level code.

REALVOL | SOFTWARE ENGINEERING INTERN

May 2018 - June 2018 | Delhi, India

- Developed a Unity mobile VR app to view MRI scans. Built the VR interactions and helped in the data processing.
- Coded all the hands-free interactions and helped in the data processing.

PROJECTS

SOCIAL MEDIA DATA ANALYSIS August 2019 - Present | Delhi, India

Advisors: Dr. Ponnurangam Kumaraguru, Professor, CS @IIITDelhi

Dr. Kiran Garimella, Postdoc at Massachusetts Institute of Technology

- Ananlysing more than 100GB of Social Media data to find its impact on Indian Loksabha Elections 2019
- Used Mongodb and coded efficient algorithms so that queries are fast and easy

Wearable Applications, Research, Devices, UNDERSTANDING CLOUDS FROM SATELLITE IMAGES | PROJECT

Presenation Link

August 2019 - November 2019 | Delhi, India

Advisor: Dr. Jainendra Shukla, Assistant Professor, CSE, HCD @IIITDelhi

- Built a deep learning model to classify patterns of clouds in satellite images using the Google Compute Platform(GCP)
- Used augmentations in pre-processing and convex hull in post-processing to create a more accurate model.

DELHI METRO CONNECT I Youtube Video Link

August 2019 - November 2019 | Delhi, India

Advisor: Dr. Ponnurangam Kumaraguru, Professor, CS @IIITDelhi

- Led the development of **Delhi Metro Connect**, an android app to provide help to metro users in Delhi
- Created the home screen and help center of the app. Helped in the design process from the low fidelity to the final application.

MINI ERP SYSTEM | GITHUB LINK

June 2018 | Delhi, India

- Developed an ERP system for a factory(Sunrise Polymold) of around 200 workers in Delhi, India.
- Used Firebase for data management and Android Studio to build the app.

RESEARCH

Researcher at Precog Lab @ IIITD

 Precog is a group of researchers who study, analyze, and build different aspects of social systems

Researcher at Weave Lab @ IIITD

• Researchers at Weave envision as well as discover through critical observations new opportunities for human-computer interactions.