Rohan Rajpal

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EXPERIENCE

EXPEDIA GROUP | Software Development Engineer Intern
May 2020 - July 2020 | Gurgaon, India
- Worked on handling data between MongoDB and S3 by making microservices with Spark job in Scala
- Understood how to deploy applications to the cloud with security and scalability in mind

VIDEOLAN | Google Summer of Code Student | Link
June 2019 - August 2019 | Paris, France (Worked remotely from Delhi)

- 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.

PROJECTS

ICLR WORKSHOP: COMPUTER VISION FOR CROP DISEASE | Competition Link
Jan 2020 – June 2020 | Delhi, India
Advisor: Dr. Saket Anand, Assistant Professor, CS @IIITDelhi
- Led the project on detecting wheat and stem rust on pictures of crops. Used Deep Learning to solve the problem.
- Did extensive research and ablation on various architectures, optimizers, learning rate schedulers and augmentations.

DELHI METRO CONNECT | 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
- Developed a beautiful Android app using Java. Helped in the design process from the low fidelity to the final application. Hostel the SQL data on Azure as backend.

RESEARCH

CHARACTERISING THE ROLE OF THE NAMO APP IN SHAPING POLITICAL DISCOURSE ON SOCIAL MEDIA | Presentation Link
August 2019 – Present | Delhi, India
Advisors: Dr. Ponnurangam Kumaraguru, Professor, CS @IIITDelhi
Dr. Kiran Garimella, Postdoc at Massachusetts Institute of Technology
- Built a strong data collection pipeline using the Elastic Logstash Kibana(ELK) stack and Open Source Intelligence tools
- Applied reverse engineering methods using Mitmproxy to reverse engineer an app's API
- Wrote down algorithms to match text and images across databases

Researcher at Precog Lab @ IIITD Website link
- Precog is a group of researchers who study, analyze, and build different aspects of social systems

EDUCATION

INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY DELHI
Btech in Computer Science Engineering
July 2017 - May 2021 (Expected)
Delhi, India
Cum. GPA: 9.09 / 10.0

SKILLS

PROGRAMMING
Over 5000 lines:
C++ • Python • Java
• QML and Qt-C++
Over 1000 lines:
C • Matlab
Familiar:
Android • MySQL • Scala • LaTeX• Shell
• JavaScript

COURSEWORK

Deep Learning
Wearable Applications, Research, Devices, Interactions
Internet of Things (IoT)
Machine Learning
Computer Networks
Designing Human-Centered Systems
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 on open source programs like Google Summer of Code and Outreachy
• 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