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PIYUSH GOYAL

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EDUCATION

Indian Institute of Technology Mandi	Himachal Pradesh, India	Aug 2018 – Present
<ul style="list-style-type: none">• B.Tech in Computer Science and Engineering, CGPA(Till Sem 3): 9.37• Relevant Coursework: Algorithms and Data Structures, Database Systems, Computer Organization, Data Science, Mathematics for Computer Science, Probability and Statistics, Linear Algebra• Responsibilities: Robotronics Club Coordinator of the Institute for Academic year 2019-20, Program Coordinator for National Service Scheme (NSS) for Academic Year 2018-19, Mess Secretary of Parashar Hostel for year 2018-19.		

WORK EXPERIENCE

Linux Community Bridge Developer	Stress-NG	July 2020 - Present
<ul style="list-style-type: none">• Finding system calls and ioctl calls for various device drivers that are lacking in error handling coverage.• Adding tests to relevant Stress-NG stressors to exercise system call error handling and re-run coverage using gcov to see if this exercises the kernel as expected. Verify that GCC Optimisation does not hamper the system calls.		
Google Season of Docs Developer	The Linux Foundation	May 2020 – Present
<ul style="list-style-type: none">• Designing Sample Printer Application Drivers, a technology revolutionising printing by making printing possible through only one driver for all printers by one manufacturer, increasing user feasibility and convenience.• Documenting and Designing Tutorials for designing printer and scanner drivers and uploading them on Snap Store for Printer Manufacturers. Developing Guide for users to set up these drivers.		
Software Engineering Intern	Choose Admission	April 2020 – May 2020
<ul style="list-style-type: none">• Developed two Android apps from scratch, admin and user, using Firebase Backend helping students to take admission in their dream colleges based upon their marks in various competitive exams and field of interest.• Enabled features including College Predictor, College Search, Filling Application, Automated Mails to Colleges along details of Candidate, Automated SMS for status of application, Chatbot for reply to basic queries, etc.		

LANGUAGES AND TECHNOLOGIES

- **Programming Languages:** [C++, C, Python] (Most experience). [Java, PHP, Bash] (Some experience).
- **IDEs and Programming Tools:** Android Studio, Visual Studio Code, Sublime Text, Eclipse, IntelliJ.
- **Other tools / frameworks:** Git, Firebase, Flask, Django, MySQL

PROJECTS

- **Lakshman Rekha:** Developed Android app that perform quarantine management through continuous user biometric authentication augmented with geofencing using AI technology. (Java, Flask, Tensorflow, Keras, MTCNN)
- **Bird Recogniser:** Developed an Android App that identifies 26 species of Himalayan birds effectively based on their image or audio. Designed REST API using Flask and used python libraries including Tensorflow and Keras for designing and training Deep Neural Networks, librosa and opencv for manipulation of files. (Java, PHP, Python)
- **MedeX:** Designed Web Application for efficient control over sales of medicines and prevention of financial loss due to medicine expiry. Used Machine Learning to predict price and help the trader to maintain a tradeoff between several factors including expiry, quantity, usage, and price. (MySQL, PHP, JavaScript, Python)
- **Smart Roads:** Designed Module that could track vehicles movement through Accelerator(MPU6050). Used this information to control traffic lights to reduce accidents on sharp turning hilly roads. Uploaded this data on Firebase Server using NodeMCU. Developed Android Monitor to view the results in Realtime. (IoT, C, Java)

ACHIEVEMENTS

- **ACM ICPC 2019:** Stood 954 out of 4500 participants in ACM ICPC online preliminary round October 2019.
- **DSA Exam by GeeksforGeeks:** Stood 1st among all students of 2nd and 3rd year of IIT Mandi.
- **Welcome 2k20:** Stood 4th in IIT Mandi Welcome 2k20, Competitive Programming Contest 2019.
- **Kamand Premier League:** Stood 2nd in a team event consisting of various technical events.
- **Ranked 6 star on Codechef/piyush_goyal16** and Expert on **Codeforces/piyushgoyaliit**.
- **Zonal Rank 2 in 12th CBSE:** In KV Gurgaon Region. Silver Medal and Recieved a Prize Cheque of Rs. 10000.
- **Rank 3 in NCFE NFLAT** among 2 lakh candidates. Awarded with a Bronze Medal and a Tablet.