Mayank Joshi

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Work Experience

Software Engineer 2   **DELL Technologies**   **August 2021 – Present**
Banglore, India

- Working on the Dell Update Packages(DUP) Framework.DUP Framework is written in C/C++.
- Changed the DUP extraction logic and additionally added ACL's on the extraction directory to protect its content.
- Used Bsafe library to encrypt the extracted content and decrypt only while execution.

Software Engineer Intern   **DELL Technologies**   **July 2020 – July 2021**
Banglore, India

- Worked as a Software Engineer to redesign, the Dell Server Update Utility Software (SUU)
- This project is now live for external customers and supports Windows, RHEL & SLES Operating System.
- SUU is a GUI tool that runs on the top of DELL EMC System Update (DSU), to allow customers to upgrade, downgrade various drivers and firmware components installed on the servers and shipped as an ISO.
- Written in object oriented C++ programming language and built on the top of the wxWidgets Cross-Platform GUI library. To avoid blocking GUI and speed up the performance, native wxWidgets library threads were used.
- To support some OS specific features it utilizes Windows API and Linux API too. CMake is used to enable cross platform building, and additionally Batch & SH files to build wxWidgets on the go.

Web Development Intern   **Edugorilla**   **December 2016 – April 2017**
Work From Home

- Developed a WordPress plugin for lead generation. Leads are student details who are registered on the platform.
- Users can buy leads using educash or by paying directly through PayUMoney.
- On purchase and expenditure of educash users will get an invoice through mail and a text message and can have a detailed history of all the transactions in timeline format.
- PHP was used to write WordPress Plugin and the database used was MySQL. PayUMoney REST API based SDK was used to integrate the payment gateway.

Education

Maulana Azad National Institute Of Technology, Bhopal   **Bhopal, India**
Masters degree in Computer Science (GPA: 7.81/10)   2019 - 2021

Birla Institute Of Applied Science, Bhimtal   **Bhopal, India**
Bachelor's degree in Computer Science (GPA: 72.2/100)   2014 - 2018

Technologies and Languages

- **Languages:**   C++, C, Python, PHP, MySQL
- **Technologies:**   AWS, Git, Linux, Windows API's, wxWidgets, CMake, Bsafe
- **Coursework:**   Data structures Algorithms, Database Management, Operating System, Computer Networks

Projects

AWS Automation: AWS Boto3 API based python script to check the health status of an ec2 instance and create a snapshot of the current instance, launches a new instance from the snapshot and allocates a static ip, if the server becomes unresponsive.

Publication

IEEE XPLORE (May 2021)
Analysis Of Genetic Algorithm, Particle Swarm Optimization and Simulated Annealing On Benchmark Functions. *Link*