

# Princi Vershwal

B.Tech. Metallurgical & Materials Engineering  
UG(IV Year II Semester)  
Contact No: 8171075189  
Email: vershwal.princi@gmail.com  
Registration No: B.Tech./MT/14118070/2018

Indian Institute of  
Technology  
Roorkee



## Area of Interest

Algorithms and Data Structures, Open Source Development, Web development.

## Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2017	B.Tech. 4th Year	Indian Institute of Technology, Roorkee	7.576
2014	Twelfth	Central Board of Secondary Education	94.0 %
2012	Tenth	Central Board of Secondary Education	10.0

## Internships

### Outreachy, Free and open source software internship | Mozilla

30th May - 30th August 2017

- Added Push Notifications as a form of 2FA method for Sign in Confirmation to Mozilla's Firefox Accounts. If a user has multiple devices connected to their Firefox Account, this feature allows them to receive a push notification to one of their other devices asking for confirmation when trying to log in to their Firefox Account in some new device.
- The project involved modifying the code of Mozilla Firefox (Desktop Client and Mobile) to trigger a notification on receiving a request from Firefox Accounts OAuth Server.
- Created awareness about Open Source and its importance at IIT Roorkee, mentored and motivated Women in Technology on campus to increase the participation in Outreachy from 1 intern in my round (myself) to 3 interns (Out of the 54 selected) in the next one.
- Technologies used - JavaScript (Node and Browser).

### Summer Internship | VISA Inc., Bangalore

8th May - 28th July 2017

- Added NoSQL support to VISAs internal library, DAL(Data access layer), which is used by the application developers for database connectivity.
- Previously based on hibernate ORM(object relational mapping), DAL now uses Hibernate OGM(object grid mapping) to provide database connectivity for NoSQL databases along with the relational databases.

## Projects

### Open Source Community Contributor, Firefox Accounts | Mozilla

April - August 2017

- Improved the text and presentation of common error messages in Firefox Accounts. Updated the UI for adding a display name to encourage more users to set one and updated the UI for Add buttons in order to draw the user's attention to items that need action.
- The contributions involved scratching through the massive codebase of Firefox accounts to modify front end elements on the basis of the users settings. Added tests with 100% coverage to ensure that the changes worked fine under all circumstances.
- Technologies used - JavaScript (Node and Browser).

## Skills

Computer languages	C++, C, JavaScript(node and browser).
Software Packages	Version Control System: Git & Mercurial, Linux, IBM-SPSS, Adobe Photoshop, Visual Studio, Android Studio.
Additional Courses Taken	Computer Programming (C++), Economics, Marketing Research, Communication Skills, Web Designing and Development, Linux Command Line Basics, JavaScript(Node and Browser), MySQL, Earthquake Engineering.
Languages Known	English (SRW) , Hindi (SRW)

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## Awards / Scholarships / Academic Achievements

- Secured world rank 64 in "Google Code Jam to I/O" for women and won a ticket to Google I/O 2017.
- Secured world rank 19 in "Google Code Jam to I/O" for women 2018.
- Attended Google I/O 2017 May 17-19, 2017, Mountain View, California.
- Attended Mozilla All hands 2017 June 26 - July 1, 2017, San Francisco.
- Secured All India Rank 14 in VISA Code Sprint 2017.

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## Positions of Responsibility & Extra Curriculars

### Programmer, Programming and Algorithms Group (PAG), SDS 2015-Present

- PAG is a group of enthusiastic and young programmers with the aim of improving the algorithmic, mathematical and programmatically problem-solving capability of students of IIT Roorkee.
- Organized and set problems for various on campus coding contests. Worked on our internal grader for judging submissions during contests.

### Vice President, Geek Gazette, IIT Roorkee's Technical Magazine 2016-17

- Geek Gazette aims to satisfy the geek inside every one of us by providing insightful articles on the web and a free of cost magazine every semester.
- Being the vice president, managed all the administrative work for the group and lead a team of 70-80 people for planning and organizing group activities.

### Mentor, Student Mentorship Program 2017-18

- Guided first-year students under the Student Mentorship Program which aims at bridging the gap between freshers and senior students by group mentoring.
- Currently mentoring a group of 6 freshers in the department. Made them aware of various opportunities in the field of technology and open source..

### Actor, Dramatics Society, Cultural Council 2014-15

- Performed street plays on various social issues.
- Played the lead role in a play, performed in the orientation program for freshers 2015.

### Web design and Development 2015-Present

- Part of the Web development proficiency, under Software Development Section (SDS).

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## References

#### Sean McArthur

Former Senior Software Engineer,  
Firefox Accounts.  
Mozilla, California  
[sean@seanmonstar.com](mailto:sean@seanmonstar.com)

#### Dr. Balasubramanian Raman

Associate Professor  
Indian Institute of Technology Roorkee  
[balarfma@iitr.ac.in](mailto:balarfma@iitr.ac.in)  
+91-1332-285852