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Education

National Institute of Technology

Hamirpur, India

B.Tech., Computer Science and Engineering

August 2011 - May 2015

• GPA 7.38/10 (highest 8.2) in a class of 103 students

D.A.V. (CBSE Board)

Mandi, India

CLASS XII

May 2011

• 88.6%

D.A.V. (CBSE Board)

Mandi, India

CLASS X

• 91.6%; Awarded Distinguished Student Award in New Delhi by CBSE for stellar academic and extracurricular performance.

Work Experience _____

 Collabora
 Cambridge, UK

 SOFTWARE ENGINEER
 Jan 2016 - PRESENT

Second highest contributor worldwide to LibreOffice Online.

- Created a monitoring console from scratch to monitor the LibreOffice Online server from the browser.
- Developed a C++ API to expose comments and change-tracking in LibreOffice core, and then used it to tunnel comments to the browser via LibreOffice Online backend.
- · Worked on dialog interaction in the browser by tunneling dialog bitmaps and mouse/key events from LibreOffice in headless mode.
- Developed responsive UI design of LibreOffice Online front-end.
- Developed C++ API for exposing context menus in LibreOffice core, and then used it to add context menu support for LibreOffice Online in the browser.
- Overhauled the LibreOffice Online front-end build system by packaging and bundling JS files using 'browserify'.
- · Hardened LibreOffice Online by implementing security headers, and identifying and fixing several security bugs.

JugnooChandigarh, IndiaBACKEND DEVELOPERJul 2015 - Jan 2016

• Maintained backend authorization module used by several Jugnoo apps for authentication; worked on several bugfixes on day to day basis.

- Developed a user referral leaderboard using Redis sorted sets and CSV file importer for the backend support team.
- Integrated PayTM (digital wallet) and Google sign-in in the Jugnoo app backend.

Google Summer of Code 2015 (LibreOffice)

Hamirpur, India

STUDENT DEVELOPER

May 2015 - Aug 2015

· Wrote a Gtk+ widget in C++ to expose LibreOffice functionality, and integrated it successfully in gnome-documents.

Google Summer of Code 2014 (GNOME)

Hamirpur, India

STUDENT DEVELOPER

May 2014 - Aug 2014

· Added support for browsing DLNA media servers in gnome-photos, GNOME's photo management application.

WoocationHamirpur, IndiaCo-FounderMay 2012 - Aug 2013

- Bootstrapped a startup idea a recommendation engine based travel platform providing optimized routes, weather updates and places to visit.
- Used Natural Language Processing (NLTK package) to expose flight connection, weather, and transportation data in human-readable format.
- Used AWS based Hadoop clusters to crunch OpenStreetMap data to find optimized distances between cities using OSRM (Open Source Routing Machine.)

Conferences & Talks

Oct '17	Google Mentor Summit, Invited to represent LibreOffice	San Francisco, USA
Oct '17	LibreOffice Conference, Talk on "Native comments" and "Dialog tunneling"	Rome, Italy
Sep '16	LibreOffice Conference, Talk on "New features in LOKDocView widget'	Brno, Czech Republic
Sep '15	LibreOffice Conference, Talk on GSoC '15 project, "Integrating LibreOffice with GNOME"	Aarhus, Denmark
Aug '15	GNOME Conference , Talk on GSoC '15 project, "Integrating LibreOffice with GNOME"	Gothenburg, Sweden
Jul '15	Fedora Conference, Talk on "Automated UI testing"	Pune, India
Jul '14	GNOME Conference , Talk on GSoC '14 project, "Browsing DLNA Media servers"	Strasbourg, France

Honors & Certificates

Certificate of Appreciation, Awarded by Computer Center, NIT Hamirpur, for reporting and fixing major security

vulnerabilities in college server: Microsoft SQL server vulnerability found by using Metasploit, SQLi, and XSS at few places 2014 NIT Hamirpur, India in the website.

2014 Winner, Annual Coding competition at ISTE (Indian Society of Technical Education) NIT Hamirpur, India

Winner, Annual Coding competition at Nimbus, NITH's Annual Technical festival 2014

NIT Hamirpur, India

Winner, Annual Coding competition at Nimbus, NITH's Annual Technical festival

NIT Hamirpur, India

2010-11 Head Boy, Represented and led school student body

D.A.V. Mandi, India

Skills.

Programming C/C++, Javascript, Python, Bash, Java, Ruby, LaTeX, Haskell

Web Django, Express, Rails, Flask, HTML5

Adobe Photoshop, GIMP, Inkscape, Adobe Flash Design

Softwares/Libraries Git, MongoDB, Redis, Neo4j, MySQL, PostgreSQL, Boost, GTK+, Cairo, Metasploit

Community contributions.

Mozilla Developer

Jan 2014 Mozilla

· Exposing raw data on UDP sockets

Fedora Packager

THE FEDORA PROJECT Oct 2014 - PRESENT

Maintainer of SFML, soundconverter, sshrc, proxychains-ng in Fedora repositories. Reviewer and tester of Fedora packages.

GNOME Developer

GNOME Jan 2014 - Jan 2016

• Automated UI testing. Several bugfixes in gnome-photos and gnome-documents.

Projects_

Program Dependence Mesh: A data-driven interpretation of imperative programs

UNDERGRADUATE THESIS Aug 2014 - May 2015

- Invented a synthesizable representation, called Program Dependence Mesh (PDM), of programs written in imperative languages.
- Used LLVM to write a compiler pass to generate PDM from LLVM IR. The target of PDM is a unified platform that can be used as an ASIC, a CPU, or even a CGRA.

Sentimental Analysis in Hindi

COURSE PROJECT Dec 2014

- · Gathered synsets in Hindi using the Hindi SentiWordNet and experimented with subjective lexicons, ngram, weighted ngram using NLTK.
- · Trained an ensemble from several classifiers: Naive Bayes, SVM, Logistic Regression, and Random Forest.

Fingerprint authentication platform

CONSULTANT DEVELOPER Aug 2013 - Oct 2013

· Next generation secure login system using NBIS. Reverse-engineered Windows drivers for Futronics fingerprint scanner.

Extracurricular Activity _____

Google Summer of Code 2017

Sysadmin & Club lead

SYSADMIN & TECHNICAL CLUB LEAD

MENTOR May 2017 - Aug 2017

• Mentored a GSoC project on LibreOffice Online to successful completion.

GNU/Linux User Group (GLUG-NITH)

NIT Hamirpur May 2012 - May 2015

- Installed & maintained Ubuntu, Fedora, BOSS, GNU, kernel.org, LinuxMint, and LDP mirror servers. We were among the few mirrors in India.
- Developed & maintained pastebin, exam result software on student server.
- Installed and maintained club's mail server, web server, wiki, and local project hosting.
- · Organized inaugural events: Software Freedom Day, Linux Installation fests, NITH Hackathon, Codechef Coding Competition, and educational meetups.

Computer Science & Engineering Community (CSEC)

NIT Hamirpur May 2013 - May 2015

• Represented college in IIT Delhi and IIT Mumbai annual technical competitions.

- Organized NITH Hackathon; inaugurated ACM ICPC Chapter and CodeChef chapter.
- Conducted several coding competitions as part of CSEC annual technical festival.