

# Priyansh Saxena

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## Education

- 2014 - 2018**     **Bachelor of Technology in Computer Science and Engineering (CGPA 8.74)**  
*Indian Institute of Technology, Mandi, Himachal Pradesh*  
Second Runner-Up in Software Development Contest at the 4<sup>th</sup> Inter-IIT Tech-Meet  
Winner of Stock-Market Analysis at the 5<sup>th</sup> Inter-IIT Tech-Meet
- 2000 - 2014**     **Secondary and Higher Secondary School**  
*Brij Bhushan Lal Public School, Bareilly, Uttar Pradesh*  
All-India Secondary School Examination (CGPA 10)  
All-India Secondary School Certificate Examination (96.0%)

## Work Experience

- May 2018 -**     **Engineering Analyst**  
*Goldman Sachs Services Pvt. Ltd., Bangalore*  
**till date**  
Responsible for management of a PaaS and cloud computing platform for developing, hosting and runtime-management of web applications. Built using Java 8 and Python, and supported by an independent integration- and penetration-testing suite written in Spock.  
Responsible for the UI and Infrastructure-as-Code offerings used firmwide for on-premises and public-cloud infrastructure procurement. Used Java, AngularJS, Terraform and multiple in-house tools.  
Active contributor to a global initiative to enforce domain-specific controls using Policy-as-Code. Policies written in Rego evaluated with Open-Policy Agent.
- Jun 2017 -**     **Research Internship**  
*Siemens Technology and Services Pvt. Ltd., Bangalore*  
**Jul 2017**  
Completed a comparative study of Apache HBase and Apache Cassandra to design a fast-pace data-pipeline for high-frequency I/O alongside storage optimization with Snappy Compression Scheme and Apache Phoenix as the SQL wrapper over a NoSQL database.
- Dec 2016 -**     **Research Internship**  
*Siemens Technology and Services Pvt. Ltd., Bangalore*  
**Feb 2017**  
Developed a bench-marking tool to monitor and gauge the performance of SQL Engines on Hadoop to predict and recommend optimal querying engine for varying data load and cluster capacities. Built with Java 8 with contingencies for newer engines with plug-and-play design.

## Projects

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- **Stock Market Analysis (5th Inter-IIT Tech Meet)** - A web-app to scrape the most relevant articles from the web that predict the change in top gainers and losers in Dow-30. Uses Flask, Beautiful Soup, NLTK, Scikit-Learn and Goose.
- **Optimal Wi-Fi Connector** - A web-service to suggest the optimal access-point for a device. Uses Flask web-framework and implements request-response message-exchange pattern.
- **Bridge** – A web-app to enable four players to play Contract Bridge. Uses AngularJS, Flask and SocketIO.
- **Online Judge** – A web-app that can accept and judge computer-programs, based on a given input and expected output set. Developed on Django and can currently handle C, C++, Java and Python languages.
- **DocAssist** – A contextual training-platform to help medics learn, based on the demography of their patients. Uses Django and NLTK to implement a Model-Template-View design pattern
- **JEE Mains Score Calculator** - Utility web-page that calculates the section-wise and total score of the applicants, given the response-sheet of the applicant and the official answer-key. Uses Vanilla JavaScript, supplemented with a Bootstrap UI and Google Analytics.

## Open-Source Contribution

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- Contributor to [Django - The web framework for perfectionists with deadlines.](#)
- [Participated](#) in [Kharagpur Winter of Code 2017](#). Developed a ReactJS based application that uploads pictures to Google Firebase and a CLI-tool to help users learn new words.
- Contributor to [NERD Commenter](#) - vim plugin for comment-functions.

## Relevant Courses

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|-------------------------------------------|------------------------------------------------|---------------------------------------|
| • Advanced Data Structures and Algorithms | • Mathematical Foundations of Computer Science | • Communicating Distributed Processes |
| • Database Practicum                      | • Data Visualization                           | • Software Design Patterns            |

## Technical Skills

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- **Programming Languages:** C, C++, Java, Python, PHP, JavaScript, Bash
- **Dev-Ops Technologies:** nginx, apache2, Terraform
- **Big-Data Suites:** Hortonworks HDP, Cloudera CDH
- **Databases:** PostgreSQL, MySQL, Apache HBase, Apache Hive
- **SE Technologies:** Django, Flask, jQuery, ReactJS, Git, SVN, Apache Maven
- **App-development:** Firebase

## Positions of Responsibility

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- Main Co-ordinator, Exodia '16 (IIT Mandi's tech-cult fest)
- Chairman, ACM Student Chapter (May '15 - May '16)
- Joint Sports Secretary, IIT Mandi (May '15 – May '16)