

DEEPAK CHAWLA

Software Engineer

Zophop Technologies Private Limited

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Education

CGPA

Computer Science and Engineering	B.Tech	IIT Ropar (2016)	7.36
Higher Senior Secondary School	CBSE (12 th)	Abhinav Public School, New Delhi (2012)	8.76
Senior Secondary School	CBSE (10 th)	DAV Public School, Amritsar (2010)	9.80

Internship/Job Experience

- **Software Engineer at Zophop, Navi Mumbai** (November 2017 - May 2018)
 - Helped increase the user base by building the referral service.
 - Worked and improved the universal search results from 64% to more than 80% results shown out of total hits.
 - To increase the availability of the buses covered, wrote a simulation using data collected to predict the bus route in real time.
 - Helped scaling the application by finding out ways to data written to firebase.
 - To predict the route traveled by the bus and reduce costs for hiring, wrote down algorithm to predict the path traveled by the bus.
- **Software Engineer at CouponDunia, Mumbai** (July 2016 - November 2017)
 - Helped increase the availability of CouponDunia to FMCG by building its backend.
 - Helped making customer support service more efficient by restructuring and better error logging.
 - To make the customer experience more better, developed auto login functionality to help the users directly login from email to CouponDunia Website.
 - Built an auto-subscription newsletter format to subscribe users to increase the CouponDunia user base.
- **SDE Internship at Amazon, Hyderabad** (May 2015 - July 2015)
 - Created a tool to determine **if a unique product** could be sold in different marketplaces across the world.
 - Languages used: **JAVA, JSP** and **HTML**.
- **SDE Internship at Copperpix, Noida** (May 2014 - July 2014)
 - Created a database in **SQL locally** from their **solr** server.
 - Languages used: **PHP** and **MYSQL**.

Undergraduate Projects

Github link: <https://github.com/DC0708>

- **Amazon Crawler**
 - Keeps track of the change in prices of different products available on Amazon.
 - Used to **analyze** the change in price for different products.
- **Machine Learning**
 - Implemented a multi-layer perceptron to **classify digits** from an MNIST dataset
 - Implemented nonlinear dimensionality reduction using ISOMAP corresponding to images with different poses of faces.
- **AWS S3 Cloud storage**
 - Developed a web app to store and retrieve files from a local directory to **AWS S3 cloud storage** in **JAVA**.
 - Files can also be **encrypted** and **decrypted** while storing and retrieving respectively.
- **Exer Gaming**
 - Developed an exer-game for **android** platform which employs real time VR.

- The players consume constantly moving bubbles which are plotted on Google maps based on their own location.
- Single player and Multiplayer gaming modes were built.
- **Inter IIT Sports Database**
 - Developed a database using **ER model** to keep record of the statistics during Inter IIT Sports Meet.
 - Languages used: **PHP** and **MYSQL**.
- **Zigmatics and Z-Hunt**
 - Organized, **managed** and developed an online mathematics puzzle game named **Zigmatics** and an online treasure hunt game named **Z-hunt** for the annual techno-cultural fest of IIT Ropar.
- **Android Applications**
 - **Surround**
 - Developed an application to **detect songs** being played in the vicinity of the user.
 - User can then play those songs on youtube by clicking the detected song.
 - **SMS based query processor**
 - Built an app to process the incoming SMS messages.
 - The user can query/command an action via an SMS to the phone having this android app.
- **Lisp interpreter**
 - Implemented an **interpreter** in C++ for basic **List-processing** (LISP).
 - Used generalized lists, stacks and recursion.

Academic Achievements

- Attained **6th** rank in ACM ICPC Onsite Regionals held at Hindustan University in Chennai (2015-2016).
- Secured **4th** position in OpenSoft App building Competition in the 3rd Inter IIT Tech Meet held at IIT Kharagpur.
- Secured **10th** rank in 'Build The Shield' Software Security Competition held at Microsoft Campus, Hyderabad.
- **Made** a game using Construct 2 in HTML5 and got it **published** on GreedyGame Media Pvt Ltd website.

Skills

- **Languages:** C/C++, JAVA, PHP, MySql, HTML, JS, CSS and SCSS.
- **Tools and Software:** Yii2, Slim, MATLAB, LAMP and Eclipse.
- **Operating Systems:** Windows, Linux and MacOS.

Extracurricular Activities

- **Online Events Coordinator** at **Zeitgeist-2014** (Annual Techno Cultural fest of IIT Ropar).
- **Coordinator** at IIT Ropar Coding Club (2014-2015).
- Badminton Representative of IIT Ropar (2013-2014).
- Organized IIT Ropar **Weekly Coding contests**.
- Participated in the 49TH Inter IIT Sports Meet held at IIT Guwahati.