

Deepak Kumar Sood

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DOB: January 13, 1994

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Work Experience

CISO Cybersecurity, Gurgaon (Software Developer) (Dec,16 - Present)
Working on product development team on Image Processing and Live Video Streaming.
Languages used: Java, Python.

Indraprastha Institute of Information Technology, Delhi (Teaching Assistant) (Aug,15 - Dec,16)
Worked as a teaching assistant in courses Network Security, Computer Networks and Mobile Computing.

NMDC Limited, Bachel Complex (Intern) (June,14 - July,14)
Guide: Mr. M. Chandrakantha
Study of "Smart Card Technology for Healthcare and other Services" for general public by which all the data can be centrally handled and maintained.

Verve Technologies, Bhilai (Intern)
Guide: Mr. Praveen Dehari (June,13 - July,13)
Routing and Switching, Embedded Systems, Robotics. Combined all three areas to make an android phone based robot, control its movement both through Bluetooth and gsm.

Education

Indraprastha Institute of Information Technology, Delhi CGPA: 7.9
M.Tech. (CSE)
2015-2017

Shri Shankaracharya Institute of Technology and Management, Bhilai CGPA: 8.74
B.E. (CSE)
2011 - 2015

Kendriya Vidyalaya, Dantewada Percentage: 74.6
CBSE
2009 - 2010

Prakash Vidyalaya, Kirandul, Chattisgarh Percentage: 76.14
ICSE
2007 - 2008

Publications

Deepika Yadav, Pushpendra Singh, Kyle Montague, Vijay Kumar, Deepak Sood, Madeline Balaam, Drishti Sharma, Mona Duggal, Tom Bartindale, Delvin Varghese, and Patrick Olivier. 2017. **Sangoshthi: Empowering Community Health Workers through Peer Learning in Rural India**. In *Proceedings of the 26th International Conference on World Wide Web (WWW '17)*.

Skills

| | |
|-------------------------------|--|
| Expertise Area | Mobile Computing |
| Programming Languages | Antlr(Compiler), C, C++, Java, JavaScript, Python, SQL |
| Markup Languages | CSS, HTML, JSON, REST, XML |
| Frameworks | CSS Frameworks, Nodejs, Spring |
| Tools and Technologies | Android Studio, Apache Subversion, BuildBox, Eclipse IDE, Git, GNS3, IntelliJ Idea, Matlab, NetBeans, NS2, Socket Programming, Visual Studio |
| Technical Electives | Advanced Networks, Compiler, Distributed System, Database System Implementation, Graduate Algorithms, Mobile Computing, Modern Algorithm Design, Programming Cloud Services in Mobile Applications, Security Engineering, Smart Sensing for Internet of Things |

Projects

| | |
|---|------------------------------------|
| VideoCutNTrim: A novice video editing platform Guide: Dr. Pushpendra Singh An Android application with a simple user interface for ASHA workers, where they can create and edit stories using audio, image and video. Used ffmpeg for video processing operations like trimming and joining. | (Jan,17 - Apr,17) Team Size - 1 |
| Building a Distributed System for Collecting Health Data using Mobile Devices Guide: Dr. Pushpendra Singh Used Open Data Kit (ODK) platform for creating, deployment, collection and analysis of large scale data from geographically and culturally distributed people using mobile devices. | (Aug,16 - Nov,16) Team Size - 1 |
| User study framework for collecting data from other applications Guide: Dr. Pushpendra Singh Created an android application framework to collect all the stats and user usability data of the 3 apps, Numerical, Word and Image dynamic password protection for shoulder surfing proofing. | (Jun,16 - Oct,16) Team Size - 1 |
| ConnectBook Social Networking Website Guide: Mr. Manish Shrotriya ConnectBook, as part of Object Oriented Programming & Design final project, is a mini social networking site with all social networking functionalities. Extensive use of Java Design Patterns along with frameworks like spring and bootstrap were used. | (Jun, 16) Team Size - 1 |
| BookXchange: An Android Productivity Application Guide: Dr. Pushpendra Singh As part of our end semester project, created a new concept app for adding location stamped books for exchanging it with other users. Users can register via google or facebook api. All the data like name, profile picture is fetched from the api's. Used google play services as map provider and gps for getting location information. Parse used as a cloud database provider and amazon search api used for fetching book details after scanning the book using integrated barcode scanner. All the material design guidelines followed for app design. | (Mar,16 - May,16) Team Size - 3 |

Muster: A Chat Application

(Apr,16 - May,16)

Guide: Dr. Pushpendra Singh

Team Size - 3

An Android chat application with features like registration through 2-step verification, friends and contacts list, group chat, broadcast and one to one chat. Used RabbitMQ to pass messages, AWS DynamoDB as backend database and 3rd party API for sms based verification.

Rudimentary File System of Unix Environment

(Jan,16 – May, 16)

Guide: Dr. Sambuddho Chakravarty

Team Size-1

As part of Security Engineering course, I implemented the Unix file system environment in a client-server communication. I designed ACL to store user permissions and implemented commands for user to communicate with server.

Automatic License Plate Detection

(April,15– June,15)

Guide: Ms. Rashi Bais

Team Size-3

As part of Major Project, our group used image processing toolbox of Matlab to find the license plate from a given car image and used OCR to extract numbers from license plate and display it.

Online Voting System

(Apr,14 – May,14)

Guide: Ms. Rashi Bais

Team Size-3

As part of Minor Project, our group made an online portal for voting where users can vote from anywhere in the world, results can also be generated instantly.

Positions of Responsibility

- Teaching Assistant for various courses for 3 semesters in (Aug,15 - Dec,16) Indraprastha Institute of Information Technology, Delhi.
- Student coordinator at Training and Placement cell of SSITM, (Jul,14 – May,15) Bhilai.
- Organizer for various events and Tech fests at SSITM, Bhilai. (Jul,13 – May,15)
- Organized workshop on Robotics at SSITM, Bhilai. (Sep,14 – Oct,14)
- Team leader for group in Bharat Scouts and Guides held at (Apr,10 – Apr,10) National Adventure Institute, Pachmarhi.

Awards and Achievements

- Winner of Bio-Bytes contest using Bio-Python for protein Sequencing, held at IIIT, Delhi in Nov, 16.
- Scholarship by Tata Trust and Google for Udacity Android Nanodegree Course in Jan, 16.
- Winner of state level Autonomous Robotics Competition, held at SSITM, Bhilai in March,13.
- Runner-up of Quiz competition held at RCET, Bhilai in August, 2012.
- Runner-up in Sankul Shatriya Vigyan Pradarshan held at KV, Jabalpur in 2010.
- Active participation in teaching govt. school and help for elderly in Help-Age India.
- Active participation in yoga campaigns organised by Satyanand Yoga Ashram.

Interests and Hobbies

- Learning new things and technologies
- Reading

Declaration: The above information is correct to the best of my knowledge.

Deepak Kumar Sood

Date: Jun 06, 2017