

Kunal Vohra

M.tech. Computer Engineering, NIT Kurukshetra

+91-9729792456 | me@kunalvohra.in | kunalvohra.in

 [vohrakunal](https://github.com/vohrakunal)

About

I am a researcher and a full stack web developer who digs deep to learn secure coding. I want to utilize my knowledge for creating simple and innovative ideas that are more productive and provide a great user experience.

Education

M.TECH. | NATIONAL INSTITUTE OF TECHNOLOGY KURUKSHETRA

- AUG 2016 – JULY 2018
- Computer Engineering
- Specialization - Cyber Security
- CGPA – 8.2742

B. TECH. | KURUKSHETRA UNIVERSITY KURUKSHETRA

- AUG 2012 – JUNE 2016
- Computer Science and Engineering
- Marks Secured - 76%

Technical Skills

DEVOPS

- Jenkins, CircleCI, TravisCI, Gitlab-Runner, Docker, Nginx and Apache Configuration.
- Self-Hosted deployment of Gitlab, Mattermost, Matomo.
- CI/CD pipelining using Gitlab and various other tools.
- Custom Linux OS Building and Shell Scripting.
- Server Handling, UNIX/LINUX Administration, web hosting.

DEVELOPMENT STACKS AND FRAMEWORKS

- Django, Flask, Keras, MEAN, React Native, MERN, Ruby on Rails.
- Twitter Bootstrap, Materialize CSS Frameworks.

LANGUAGES

- Python, Vanilla JavaScript, Node.js, R, jQuery, Php, Java, CSS3.

DATABASES

- MySQL, PostgreSQL, MongoDB.

OPERATING SYSTEMS

- Linux, Windows

OTHER SKILLS

- Fog Computing, GMP, HTML5, IoT Security, secured protocol designing, Cryptography.

Experience

INDUSTRIAL EXPERIENCE

- July 2018 – Aug 2019 (Digisoft IT Solutions Pvt. Ltd., Delhi)
- Aug 2019 – Till Date (Skynox Tech Pvt. Ltd.)

RESEARCH EXPERIENCE

- June 2017 – June 2018 (Published Two Research Papers)

FREELANCE EXPERIENCE

- June 2014 – June 2017 (Worked on more than 15 projects)

Research Work

MULTI-AUTHORITY ATTRIBUTE BASED DATA ACCESS CONTROL IN FOG COMPUTING

- Simulated the scheme on Raspberry PI 3 as fog node.
- Compared the results with an existing scheme and proved its efficiency and effectiveness.
- Reference: Kunal Vohra, Mayank Dave, "Multi-Authority Attribute Based Data Access Control in Fog Computing", Procedia Computer Science, Volume 132, pages 1449-1457, Elsevier, 2018, ISSN 1887-0509, <https://doi.org/10.1016/j.procs.2018.05.078>.

SECURING FOG AND CLOUD COMMUNICATION USING ATTRIBUTE BASED ACCESS CONTROL AND RE-ENCRYPTION

- Raspberry Pi 3 was used as fog node for simulation.
- It solved various security issues.
- Reference: K. Vohra and M. Dave, "Securing Fog and Cloud Communication Using Attribute Based Access Control and Re-encryption," *2018 Second International Conference on Inventive*

Communication and Computational Technologies (ICICCT), Coimbatore, India, 2018, pp. 307-312. doi: 10.1109/ICICCT.2018.8473045.

ATTRIBUTE BASED ACCESS CONTROL USING PARTIAL DECRYPTION IN FOG CLOUD COMMUNICATION

- Manuscript Under Preparation
- Authors: Kunal Vohra and Mayank Dave

Projects Undertaken (Open Source)

CRICLI

- Live Cricket Score in your terminal.
- Checkout at <https://www.producthunt.com/posts/cricli>

RASPBERRY PI AUTOMATION

- The Raspberry PI 3 was interfaced with various sensors.
- The sensors were controlled remotely using a web interface.
- The project was demonstrated in RDCIoT 2017 workshop held at NIT Kurukshetra.
- Technologies Used: Python 2.7, Apache, CSS, HTML5, Raspbian.

DAILY PROGRESS REPORT

- The project was developed for Kurukshetra Institute of Technology and Management.
- The web application is currently in use and has over 1000+ daily users.
- This project helps management and teachers of the institute to manage schedule of teachers and track their records.
- Received an appreciation letter as an honor by the college.

STUDENT PROGRESS MANAGEMENT SYSTEM

- The project was developed for Kurukshetra Institute of Technology and Management.
- The web application is currently in use and has over 500+ daily users.

ENIGMA QUIZZER

- This application was used to conduct online test of over 500+ students.
- It supports question paper upload and results filtering via admin panel.
- Received appreciation letter by college for this project.

CITY SEARCH

- This application is used to find details about a place in a city according to type of destination.
- The application integrates google maps to precisely define a location.

Projects Undertaken (Commercial)

- Experience of developing, managing and delivering 17 commercial projects
- Worked as a tech lead in 5 and as product manager in 4 projects.
- Experienced in DevOps, Continuous Integration and Deployment and Linux Administration.
- Hands on experience in developing atli Debian based Custom Linux OS.

Awards and Achievements

- Presented two papers in International Conferences.
- Conducted Lab Sessions during Recent Developments and Challenges in Internet of Things Security (RDCIoT) organized by Department of Computer Engineering, NIT Kurukshetra during July 3-8, 2017.
- Got two appreciation letters for designing and developing software from scratch for college during B.Tech.

Certification and Trainings

SUN WEB TECHNOLOGIES, CHANDIGARH

- Training Period: 8 Weeks
- Project Undertaken: Ecommerce Website
- Technologies Used: Php, JS, Bootstrap, CSS, HTML, MySQL.

SOFTOLUTION TECHNOLOGY PVT. LTD., NEW DELHI

- Training Period: 6 Weeks
- Project Title: Attendance Management System
- Technologies Used: Python, Django.

HCL CDC, MOHALI (S.NO. LTCOP-1714)

- Training Period: 6 Weeks
- Project Title: Perfect Destination (City Search)
- Technologies Used: Php, MySQL, JavaScript, CSS, Google maps API,

SUN WEB TECHNOLOGIES, CHANDIGARH

- Training Period: 6 Weeks
- Project Undertaken: Hospital Management System
- Technologies Used: Java (Core), MySQL.

CAREER LAUNCHER, KURUKSHETRA

- Course Period: 40 hours

- Course Title: Soft Skill Development

Other Participations and Activities

- Participated in Secure Information Technology GIAN Course organized by Department of Computer Applications, NIT Kurukshetra during 18th Dec 2017 to 23rd Dec 2017.
- Participated in Recent Developments and Challenges in Internet of Things Security (RDCIoT) organized by Department of Computer Engineering, NIT Kurukshetra during July 3-8, 2017.
- Participated in Hackers Congress – IT Security Conference, Chandigarh.
- Participated in Project Exhibition '15 during Science Fiesta '15 organized by KITM, Kurukshetra.
- Worked as ORGANISER of the Quiz Competition in Science Fiesta '14
- Participated in Project Exhibition of Science Fiesta '14 organized by KITM, Kurukshetra.

Interests and Hobbies

- Learning more about new technologies and gadgets.
- Using technologies to improve day to day life.
- Listening Music while coding.

Personal Details

- Date of Birth: 08th July 1994
- Sex: Male
- Nationality: Indian
- Languages Known: English and Hindi
- Current Address: 380, Phase 2, Sector 54, Chandigarh, Mohali, Punjab, India - 160055
- Permanent Address: 301A, Sector-5, Kurukshetra, Haryana, India – 136118

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