

Gaurav Sachdev

EDUCATION

- M.S. in Information Security (CGPA: 3.96)** Jan. 2021 - Dec. 2022 (Expected)
Purdue University, West Lafayette, IN
Relevant Coursework: CNIT 471-Vulnerability Analysis and Testing, CS 555-Cryptography, CS 526-Information Security, CS 528-Network Security, CS 523-Social, Economic and Legal Aspects of Security.
- B.Tech. in Computer Science and Engineering (CGPA: 8.7/10)** Aug. 2016 - May 2020
SRM Institute of Science and Technology, Kattankulathur, India

EXPERIENCE

- Developer, Graduate Professional, Scientific Solutions Group** Mar. 2021 - Present
Purdue University, West Lafayette, IN
- Project 1: Simple-G Tool on MyGeoHub**
- Participated in the revamp of the tool used to study sustainability issues in the global food water environment nexus.
 - Designed and Implemented the frontend, map display with gdal and database to track jobs in a Python3 Jupyter Notebook.
 - Improved the precision of the tool by adding two additional parameters and an option for custom config files.
 - Collaborated with the team to migrate to the new job submission API and deploy it to production.
- Project 2: GeoEDF Framework (Current)**
- Contributed to the GeoEDF framework to simplify data wrangling for geospatial research workflows.
 - Designed and developed three reusable blocks for the framework as connectors and processors.
 - Reduced development time by not having to create new workflows from ground up.
- Intern, Vulnerability Assessment, Penetration Testing and Risk Assessment** Dec. 2018
Ernst and Young, India
- Researched about Threat Modelling, Auditing, ISO 270001 and NIST guidelines as part of Risk Assurance team.
 - Authored and presented a report of six secure code review tools to add to the repertoire of the VAPT team.
 - Detected over five vulnerabilities on live websites during penetration testing.
- Summer Intern, Mobile App for COAL PSMS** June 2018
mjunction service ltd, India
- Contributed to the IBMD Sahaj android application to place and manage coal orders.
 - Added multi-language support throughout the app and an FAQ chatbot.
 - Upgraded the experience for users who were not fluent in English to navigate the app.
- Summer Intern, Software Engineering** June 2017
Tata Steel, India
- Optimized the grouping of metal springs orders for mother coil width maximization to reduce waste by 12%.
 - Implemented the tools and techniques involved in the data prediction and regression in R.
 - Presented the improved methodology with statistical analysis of historical orders to show impact.

PROJECTS

- gauravsachdev.github.io/Blog | *Jekyll, HTML, CSS, Javascript, Git*
- Authored walkthroughs and tutorials for 13 ctf's completed and 4 tutorials for commonly used tools like SQLMAP.
 - Host and maintain the blog and portfolio website on Github pages.
- Standalone Database for Mukti NGO** | *Python3, Tkinter, SQL*
- Consolidated the various paper ledgers for the Mukti NGO under one SQLite database with redundancy.
 - Developed an easy to use front-end with a search functionality using Python3's Tkinter GUI toolkit.
- Final Year Project for B. Tech.: Storing Medical Data on a Blockchain** | *Solidity, Strato Blockapps, Truffle*
- Cooperated to create a proof-of-concept decentralised blockchain application for storing medical data.
 - Designed the application to store data in the form of text and files using InterPlanetary File System.

TECHNICAL SKILLS

- Languages:** Python, C, C++, Java, SQL, BASH scripting, JavaScript, HTML, R.
- Frameworks:** Worked with the MEAN (Mongo DB, ExpressJs, AngularJS and Node) and LAMP (Linux, Apache, MySQL, and PHP) stacks, Oracle, SQLite, MySQL, NodeJS, Firebase, OWASP Top 10, Docker, Git, Android Studio.
- Tools:** Proficient with tools available in Kali Linux and Parrot such as Burp Suite, Nmap, John the Ripper, Nessus, Wireshark.
- Certificates:**
- CEH v10 (Certified Ethical Hacker):** By EC-Council, Certificate Number: ECC7329846015. June 2019.
- Software Security:** By University of Maryland (Coursera). July 2019.
- Usable Security:** By University of Maryland (Coursera). October 2018.
- Bitcoin and Cryptocurrencies CS198.1x:** by Berkeley (edX), August 2018.
- CCNA Routing and Switching (netacad.com):** Introduction to Networks, Routing and Switching Essentials, Scaling Networks and Connecting Networks Conducted on Cisco Networking Academy.