

Hitesh Chander Monga

@ hiteshcmonga@gmail.com

+358-414843362

Espoo, Finland

Linkedin

Github

A technological enthusiast driven towards combining the power of programming, logical reasoning and human ingenuity to solve complex real life problems. Willing to work hard, learn and contribute towards organisational success. An effective team player offering amazing analytical and interpersonal skills.

Formal Education/Degree

Bachelor of Technology (Electronics and Communication)
National Institute of Technology Hamirpur (2017-21), GPA: 8.48/10

AISSEE (12th Standard)
Rose Mary Convent School, Bathinda (2017): 86.8%

AISCE (10th Standard)
Bikaner Boys School, Bikaner (2017), GPA: 10/10

Work Experience

ASCI Intern

Aalto University, Finland

May 2020- Present || May 2019-July 2019

- Currently working as a Research Assistant in Aalto University to develop privacy preserving [solutions](#) using Verifiable Credentials and decentralised identifier technologies. Optimised the system to make it fast enough to verify digital signatures using cryptographic functions for resource constrained devices.
- Enhanced the overall security of the [O-MI/O-DF](#) standards of Internet of Things created by AaltoASIA team, developed an OAuth-based Authentication Mechanism for Open Messaging Interface Standard and Modelled secure communication using Elliptical Curve Cryptography method.
- Technologies: Javascript, Django, Python, Node.js, Postman API, Linux, Github, Cryptographic Libraries.

Intern

IIT Indore

December 2017-January 2018

- Worked on different developer boards and made projects related with Internet of Things, Data security and automation.
- Technologies: XCTU, C++, python, Linux, IoT protocols, Dev. Boards

Projects

- Verifiable Certificate Implementation**
[Implementation](#) of VC flow on local machine and resource constraint devices alongwith the use of cryptographic methods for data security.
- OMI Authentication Module**
[Updated](#) the pre-existing Authentication module of OMI standards, Integrated OAuth2 Authorization Framework and implemented efficient code to make the module secure and robust.
- Connected and assistive traffic mobility**
[Created](#) a mesh network of networking devices and using an efficient algorithm it checks for various measures including accident location and approachable distance.

Programming Skills

C/C++ Python TCL DBMS MATLAB
HTML CSS Javascript TypeScript
Django Data Structure & Algorithm
Git Github Linux Source Control
Information & Network Security
Computer Networks Shell Scripting

Achievements

- Selected as ASCI Scholar (in 2020-21) out of 1095 applicants from 79 different countries. (In Top 0.5% candidates)
- Project CATMO selected for KPIT Sparkles 2019 reached national semi-finals stage.
- Selected as Facilitator to present multiple sessions based on project [Tele-pi-ty](#): "Controlling your Raspberry pi using telegram CLI" at Mozilla Festival 2018, London.
- Ranked in Top 1.5% candidates in JEE Mains 2017

Publications

[1] H. Monga, T. Kinnunen, A. Malhi, A. Javed, and K. Främling, "An OAuth-based Authentication Mechanism for Open Messaging Interface Standard," Proceedings of the 12th International Conference on Agents and Artificial Intelligence, 2020. ([DOI](#))