



# NIMER A. SINGH

Security and Cloud Computing (SECCLO)

## INTERESTS

Cloud Computing Enthusiast, Passionate  
About Information Security

## SKILLS

Languages: Python, C, JavaScript, Dart, Bash  
Web: NodeJs, ReactJS, Flask  
Database: MySQL, NoSQL  
Cloud: Google Cloud  
Blockchain: Hyperledger Fabric, Ethereum

## LEADERSHIP

Supporting Committee - ESN, NTNU  
[August 2023 - Present]  
Treasurer - Rotaract Green Club, MUJ  
[July 2018-May 2019]  
General Secretary - Panacea, MUJ  
[Jul 2018-May 2019]  
Head of Design - Phi Phenomenon, MUJ  
[Jul 2018-May 2019]  
Executive Committee Member for Blood  
Donation Camp 2018, MUJ, donor count  
-1703

## HOBBIES

Stand Up Comedy, Formula 1 aficionado,  
Graphic Design

## CONTACT INFO

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## EXPERIENCE

- **Aalto University, Espoo, Finland | Research Assistant - Arto Hellas**  
April 2023 - August 2023
  - Designed and built an AI-assisted programming platform to enhance code quality and promote best practices which focus on personalized feedback as part of an ongoing PhD research project.
  - Developed scalable databases for improved performance, security, and maintenance.
  - Collaborated with cross-functional teams to design, develop, & implement a robust application, utilizing Svelte, JavaScript, Python, and introduced scalable grading systems for assignment submissions.
- **Aalto University, Espoo, Finland | Teaching Assistant - Tuomas Aura**  
August 2022 - April 2023
  - Teaching Assistant for the courses Information Security, Network Security, and Laboratory works in Networking & Security.
- **Shivoham Techno Services, New Delhi, India | DevOps Engineer**  
August 2020 - February 2022  
Shivoham automates and integrates industrial manufacturing and smart electrical grid systems.
  - Developed smart city electrical grid management applications and automation solutions for the hospitality industry, using Python, Javascript & and deploying them on Google Cloud.
  - Implemented and maintained CI/CD pipelines to automate build, test and deployment of applications.
  - Identified performance bottlenecks and optimized system performance through configuration tuning and infrastructure scaling while keeping security in mind.
  - Led QA division to optimize resources, enhance processes, and deliver cost-effective solutions.
- **Dell International Services, Hyderabad, India | Software Developer Intern**  
May 2019 - July 2019 (Customer Satisfaction); January 2020 - May 2020 (Availability Command Center)
  - Analyzed the processes of Availability Command Center Team (ACC) to identify tasks for automation and implement them & created dashboards for supply chain to reduce customer support response time.
  - Developed & deployed a Python based automated system for translating thousands of customer reviews in multiple languages on Dell website to English for the Customer Satisfaction Team (CSAT Team)

## RESEARCH EXPERIENCE

- **Implementation and Analysis of Blockchain Based DAPP for Secured Sharing of Students' Credentials.**  
2019 - Research Paper, IEEE Consumer Communication and Networking Conference 2020  
DOI: 10.1109/CCNC46108.2020.9045196

## EDUCATION

- **Norwegian University of Science and Technology (NTNU), Trondheim, Norway**  
August 2022 - May 2024 (Erasmus Mundus Programme for Security and Cloud Computing)  
Remarks: Ongoing Studies
- **Aalto University, Espoo, Finland**  
August 2022 - May 2024 (Erasmus Mundus Programme for Security and Cloud Computing)  
Remarks: Ongoing Studies
- **Manipal University Jaipur (MUJ), Jaipur, India**  
August 2016 - July 2020 (Bachelor of Technology in Computer & Communication Technology)  
Remarks: CGPA: 9.1/10 - Gold medal for academic excellence, Scholarship for academic excellence