



NIMER A. SINGH

Security and Cloud Computing (SECCLLO)

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

January 2024 - July 2024

- Masters Thesis focusing on the use of large language models for generating high quality questions for programming assignments.

Aalto University, Espoo, Finland | Research Assistant

April 2023 - August 2023

- Developed an AI tool to improve code quality and coding practices. The tool uses a large language models (LLM) to give feedback to the programmer.
- Implemented using Svelte, JavaScript, Python, and introduced scalable grading systems for code submissions.

Shivoham Techno Services, New Delhi, India | Lead DevOps Engineer

August 2020 - February 2022

Shivoham automates energy and efficiency solutions using smart electrical grid systems.

- Led a team of 6 engineers.
- Developed smart city electrical grid management applications and automation solutions for the hospitality industry, manufacturing plants, and commercial housing projects using Python and JavaScript, and deployed them on the Google Cloud Platform as well as a self-hosted cloud services.
- Implemented and maintained CI/CD pipelines using GitLab CI to automate build, test and deployment of applications.
- Deployed and managed infrastructure using Infrastructure as Code (IaC) using Terraform.
- Engineered full stack solutions using React, Express, Django, MySQL, and Docker to optimize user interface responsiveness and backend performance.
- Secured the applications by leveraging OWASP ZAP for dynamic testing and Snyk for open-source vulnerability assessment to comply with industry standards.

Dell Technologies, Hyderabad, India | Software Developer Intern

May 2019 - July 2019; January 2020 - May 2020

- Analyzed the processes to identify tasks for automation.
- Implemented dashboards for Availability Command Center to reduce customer support response time.
- Developed automated translation system for thousands of customer reviews on Dell website from multiple languages to English.

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](https://doi.org/10.1109/CCNC46108.2020.9045196)

EDUCATION

Norwegian University of Science and Technology (NTNU), Trondheim, Norway

August 2022 - July 2024 (Erasmus Mundus Programme for Security and Cloud Computing)

Remarks: GPA: 3.88

Aalto University, Espoo, Finland

August 2022 - July 2024 (Erasmus Mundus Programme for Security and Cloud Computing)

Remarks: GPA: 3.88

Manipal University Jaipur (MUJ), Jaipur, India

August 2016 - July 2020 (Bachelor of Technology in Computer and Communication Technology)

Remarks: CGPA: 9.1/10 - Gold medal for academic excellence, Scholarship for academic excellence