Aayush Acharya

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EDUCATION

TRIBHUVAN UNIVERSITY
BE in Computer Engineering
2017-2022 | Lalitpur, Nepal
IOE Pulchowk Campus
First Division
Aggr Percentage: 77.55%

UNITED ACADEMY
Grad. 2017 | Lalitpur, Nepal
First Division with Distinction
Aggr Percentage: 84.8%

LINKS

Facebook:// **aayushacharyaa**
Github:// **aayushacharya**
LinkedIn:// **aayush-acharya**
YouTube:// **Aayush Acharya**
Stack Overflow:// **Aayush Acharya**

COURSEWORK

UNDERGRADUATE
Big Data
Database Management System
Artificial Intelligence
Operating Systems
Computer Graphics
Data Mining
Numerical Methods

SKILLS

PROGRAMMING
Over 5000 lines:
Golang • Shell • Python • Javascript
C • C++ • SQL • R
Over 1000 lines:
Matlab • Flutter • Assembly
Familiar:
Terraform • Android

TECHNOLOGIES
Docker • GCP • PostgreSQL
Firestore • GitHub Actions • AWS
RabbitMQ

EXPERIENCE

RARA LABS | Software Engineer
May 2022 - Present | Manbhawan, Nepal

- Designed and implemented secure messaging system as a cross border payment API service, using ISO20022 standard, ensuring transaction integrity and data protection. Leveraged RabbitMQ's asynchronous messaging for efficient and reliable communication between system components, enhancing scalability and performance.
- Led the development of robust CI/CD pipelines, automating integration and deployment processes. Implemented automated API and integration testing in CI for identifying breaking changes in a TDD process.
- Developed cutting-edge healthcare management product, utilizing comprehensive patient data and predictive ML models for early sepsis detection, leading to improved patient safety and timely intervention.
- Optimized performance and scalability by implementing independent execution threads in Go.
- Engineered a serverless static site generator (SSG) in GCP, leveraging robust infrastructure and streamlined workflows for efficient site creation, injection, and deployment.

LOGPOINT INC | Solutions Intern
Jan 2022 - May 2022 | Jawalakhel, Nepal

- Delved in the fundamentals of Linux, debugging Python and Java services, shell scripting, monitoring and performance tuning, CIFS, ZFS, LVM and SIEM softwares in general.

RESEARCH

NEPAL APPLIED MATHEMATICS AND INFORMATICS INSTITUTE FOR RESEARCH | Research Intern
Aug 2021 – Apr 2022 | Lalitpur, Nepal

Worked with **Dr. Bishesh Khanal** on Nepali automatic speech recognition using Wav2Vec 2.0 and classification using MURIL, a BERT model pretrained on 17 indian languages.

AWARDS

2020	IOE Pulchowk Campus	LOCUS Hack a week winners
2017	United Academy	Merit Based Scholarship, 3rd out of 600 in NEB exams
2017	United Academy	4th in United Talent Hunt, Poem competition
2015	GEMS	Token of merit for publishing articles in national daily