

# SURAV KRISHNA SHRESTHA

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## Skills

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- Python | JavaScript | TypeScript | C++ | C | Go
- Node | Express | Django | Django REST Framework | GraphQL | MongoDB | PostgreSQL | MySQL | Prisma | Next.js | React | React Native | TanStack React Query | Redux | Shadcn | Tailwind CSS | Material UI | Bootstrap | Bulma
- AWS | GCP | Azure | DigitalOcean | Cloudflare | Vercel | Netlify | Render | Railway
- Docker | Ansible | Terraform | GitHub Actions | Git | GitHub
- Jest | Cypress | Unit Testing | Integration Testing | OOP | REST API | Frontend | Backend | DevOps | Full-Stack

## Certifications

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**[AWS Certified Solutions Architect - Associate](#)** [↗](#) Feb, 2025

Issued by [Amazon Web Services Training and Certification](#)

**[AWS Academy Cloud Foundations](#)** [↗](#) Jul, 2024

Issued by [Amazon Web Services Training and Certification](#)

**[Full Stack Open](#)** [↗](#) Nov, 2023

Issued by [University of Helsinki](#)

## Experience

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**Backend Developer** | [Nepal Police](#) Feb, 2025 – July, 2025

- Developed secure backend APIs using Express.js and TypeScript for a multi-department police log system.
- Designed PostgreSQL schema with Prisma ORM for user, task, and audit management.
- Implemented JWT authentication with role-based access control.
- Containerized services using Docker, with Traefik for reverse proxy, SSL, and load balancing.
- Deployed production system on on-premise servers with domain and SSL automation.

**Cloud Apprentice** | [Adex International](#) Nov, 2024 – Jan, 2025

- Gained hands-on experience in AWS Cloud Architecting and Solutions Architecture, focusing on designing scalable, secure, high-performing, and cost-optimized cloud solutions.
- Developed in-depth knowledge of AWS services, including Compute, Networking, Storage, Security, and Serverless technologies.
- Prepared for and successfully achieved the **AWS Certified Solutions Architect – Associate** certification.
- Worked with AWS Well-Architected Framework principles to design resilient and highly available cloud architectures.

**Technical Manager** | [TEDx IOE Pulchowk](#) Jan, 2024 – Mar, 2024

- Developed and maintained the official [TEDx IOE Pulchowk website](#), ensuring a user-friendly and visually appealing platform.
- Designed and implemented a mass email system reaching over 5,000 individuals, leveraging Python scripting for efficient management of invitations and communications.

## Education

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**Bachelor of Computer Engineering** 2021 – 2025  
IOE, Pulchowk Campus, Tribhuvan University

**Higher Secondary Education, Science** 2018 – 2020  
Adarsha Vidya Mandir, Manbhawan, Lalitpur

**Secondary Education Examination** 2018  
Adarsha Vidya Mandir, Manbhawan, Lalitpur

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## Projects

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**MeroSwad** | *TypeScript, Next.js, React Query, Express, MongoDB, Redis, S3* | [Live Demo](#) | [Video Demo](#)

Restaurant management SaaS with QR code digital menus, multi-role admin dashboards, real-time analytics.

- Built complete SaaS platform with QR digital menu system, multi-role admin dashboards, enterprise-grade security, and scalable REST API using Express.js, MongoDB, Redis
- Developed modern React frontend with Next.js, TypeScript, Tailwind CSS, and implemented cloud storage, automated email workflows, drag-and-drop management, and analytics dashboards

**Nepal Police Digital Diary** | *TypeScript, Express.js, PostgreSQL, Prisma, Docker, Traefik* | [Demo](#)

Digital log management system for Nepal Police, enabling structured logging, auditing, and secure access

- Developed secure backend APIs and PostgreSQL schema with Prisma for user management and log entry and management; implemented JWT-based authentication with role-based access control.
- Engineered Docker-based deployment with Traefik reverse proxy, SSL automation, and on-premise server provisioning under the official domain.

**YouTube Guardian** | *TypeScript, React, Tailwind, Express.js, YouTube API, Flask, ML, Python, NLP* | [Demo](#)

AI-powered hate speech detection system for analyzing Nepali & English YouTube comments across 5 categories.

- Built microservices architecture with separate hate speech analysis service and YouTube data service, integrating ML model for Nepali comment classification with adjustable prediction scoring
- Built full-stack application with YouTube API integration for automated comment retrieval, real-time analysis, filtering/sorting, and statistical visualization dashboard

**liart.io** | *TypeScript, Node.js, Express, React, TailwindCSS, Socket.io* | [Demo](#)

Free online multiplayer game that blends elements of two popular games Skribbl & Among Us

- Led the development, management, and enhancement of liart.io, a compelling online multiplayer game designed to challenge and engage players in the art of deception, achieving over 1,000 monthly page views.
- Showcased and [won](#) the Software category of LOCUS 2024, the 20th National Technological Festival organized by [LOCUS, IOE Pulchowk](#)

**Derma** | *Node.js, Express, MongoDB, Clouinary, React, Redux, Material UI* | [GitHub](#)

AI skin health assistant which helps to identify your possible skin condition

- Developed a machine learning model that accurately predicts skin disease based on images of skin lesions, trained on 7 skin diseases
- Developed a user-friendly web application allowing users to upload images and receive predictions from the model.

**Genie** | *VSCoDe Extension | TypeScript, OpenAI API* | [GitHub](#)

AI coding assistant which enhances your coding experience

- Developed an empowering VSCoDe Extension designed to assist coders in optimizing, documenting, and explaining their code, which also facilitates the generation of Unit Test cases for your codebase, leveraging the power of OpenAI API, gpt-3.5-turbo

## Achievements and experience

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- [Winner](#) in the Software category at the LOCUS 2024 Project Demonstration
- [Winner](#) in the EdTech category at the Hack-A-Week 2024 event organized by LOCUS
- [Winner](#) (Team The Boys) at the HackSquad 2023
- **Instructor** at the multiple software workshops and fellowships
- Participated in several hackathons, technical festivals, and coding competitions
- Budhanilkantha Math League 2019 Individual event **Silver medal**