

# Divyanshu Kaintura

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## EDUCATION

### Graphic Era Hill University

*Bachelor of Technology in Computer Science and Engineering*

Dehradun, UK

*Aug. 2022 – Present*

## EXPERIENCE

### Salesforce-Supported Virtual Internship Program

May 2025 – Present

*Salesforce*

*Virtual*

- Selected for a competitive virtual internship program supported by Salesforce, focusing on CRM fundamentals, cloud platforms, and Trailhead learning modules.
- Engaging in hands-on projects and collaborative challenges that simulated real-world Salesforce applications.
- Currently undergoing training on Salesforce administration, development, and platform customization.

### Backend Engineer Intern

Feb 2025 – May 2025

*Thinkdex Technology*

*Remote*

- Engineered a scalable video conferencing backend using **MediaSoup**, **WebRTC**, and **Redis**, enabling real-time, low-latency communication for over **1,000+ concurrent users**.
- Configured and deployed **STUN/TURN servers** to ensure **95%+ connectivity success rate** across diverse NAT environments.
- Optimized backend on **AWS EC2, S3, and CloudWatch**, improving resource utilization and reducing costs by **25%** through auto-scaling groups and spot instances.
- Automated service orchestration with **NGINX, Docker, PM2, and systemd**, improving deployment efficiency and reliability.

### Full Stack Developer

Nov 2024 – Feb 2025

*Vishwabandhu Foundation*

*Remote*

- Built a full-stack web app using **Next.js**, **Tailwind CSS**, and **Node.js**, streamlining onboarding and donation workflows for over **3,000+ users** across 2 social impact programs.
- Integrated **Firebase Realtime Database and Authentication**, reducing manual onboarding time by **60%** and ensuring secure user management.
- Refactored backend API queries, achieving a **30% reduction in response times** and improved throughput under high traffic.

## PROJECTS

### Enlightener (AI-Powered Deepfake Detection) | *Python, TensorFlow, OpenCV* Sept 2024 – Oct 2024

- Developed a deepfake detection platform using the **Meso4 model** and a custom CNN, reducing false positives by **30%** on a dataset of **10,000+ tampered videos**.
- Integrated a **Gemini-powered chatbot** to explain model predictions via natural language, boosting user engagement by **25%**.
- Deployed models through a Flask-based web app with **99.9% uptime**, ensuring reliable real-time inference.

### Assembler and Emulator (Custom Instruction Set) | *Python*

Feb 2024 – Apr 2024

- Built an assembler to convert custom assembly code into machine code and executed it using a self-developed emulator.

- Supported 20+ instructions with features like **memory management, instruction tracing, and I/O simulation** to mimic CPU behavior.
- Designed for educational use to demonstrate how low-level code interacts with hardware-like components.

#### **Test-Companion (AI-Based Learning Tool)** | *Next.js, TypeScript, Tailwind CSS* Jan 2025 – Feb 2025

- Built and deployed a web app on Vercel to extract text from handwritten exam images with **95%+ OCR accuracy** using Google Cloud Vision API.
- Integrated Gemini API for AI-based answer generation with customizable prompts, improving response relevance by **40%**.
- Added keyword-based web search for contextual learning, increasing average session duration by **20%**.

## TECHNICAL SKILLS

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**Languages:** Python, Java, C/C++, JavaScript, TypeScript, SQL (MySQL, PostgreSQL)

**Frameworks & Tools:** React.js, Next.js, Node.js, Express.js, Django, Tailwind CSS, WebRTC, Mediasoup, Flask

**ML & AI Libraries:** TensorFlow, Scikit-learn, Keras, XGBoost, OpenCV, Hugging Face Transformers

**DevOps & Cloud:** Docker, Kubernetes, AWS (EC2, S3), Firebase, Vercel, PM2, GitHub Actions

**Databases & Systems:** MySQL, PostgreSQL, Firebase Realtime DB, Firestore, Redis, NGINX, Linux/Unix, Git

## ACHIEVEMENTS

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**JAM Rising Star & 5<sup>th</sup> Place Winner (AWS Jam Challenge):** Won goodies and a cash prize of rupees 4000 for excelling in real-world AWS security and cloud challenges.

**Fetch.ai Hackathon (IIT Guwahati, 2024):** Finalist; developed *Enlightener*, a deepfake detection system.

**PromptX National Hackathon (Dev Bhoomi University, 2025):** 5<sup>th</sup> position for developing *Endurance Estates*, an AI-driven real estate platform.

**Hack-o-lic (Graphic Era University, 2025):** 4<sup>th</sup> place for creating a React Native-based women's safety app with SOS trigger features.

**University Hackathon:** Top 5 finalist for *Psychic Warriors*, a web game promoting mental wellness.

## CERTIFICATIONS

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**AWS Machine Learning Plan:** Completed via AWS Skill Builder.

**AWS Cloud Practitioner Essentials:** Completed via AWS Skill Builder.

**Python for Data Science by Fractal (Coursera):** Focused on data preprocessing, EDA, and modeling techniques using Python.