Kanishka Halder

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EDUCATION

- **Indian Institute of Technology, Kharagpur** — July 2017 - June 2022
  B.Tech + M.Tech Electronics & Electrical Communication Engineering — *CGPA: 7.76*
  Specialization: *Visual Information & Image Processing*

SKILLS SUMMARY

Languages: Python, Go, Terraform, Typescript/Javascript, C/C++, Java, SQL
Frameworks: GCP, AWS, Azure, Docker, Github Actions, Springboot, Django, Neo4j, PostGres, MySQL

EXPERIENCE

- **JDoodle.ai | DevOps Consultant** — March 2025 - Present
  Remote
  - **Infrastructure**: Create and manage **ASGs** and EKS for all services with **AMI** setup and **ALB** + SecurityGroup setup
  - **Network**: Setup **NLB** for highly available **SquidProxy** setup. Worked with **OpenResty** for dynamic route handling
  - **Pipeline**: Created deployment pipelines with **Bitbucket + AWS CodeDeploy** and alerts with **CloudWatch**
  - **Tech Stack**: AWS, ALB, Lambda, EC2, EBS, EKS, ASG, CloudWatch, CloudTrail, Docker, TerraformBitbucket

- **Maxim AI | Founding Platform Engineer** — May 2024 - Dec 2024
  Bangalore, Karnataka
  - **Infrastructure**: Created Maxim AI's cloud infrastructure in **GCP** and **Terraform**. Created and managed multiple **K8s** clusters with custom scale-up and version upgrade configurations. Setup **Cloud Functions** for Maxim CLI
  - **SDK**: Created the **Go** and **Python SDKs** of Maxim AI following best practices with minimal third-party libraries.
  - **Library Development**: Created **dragonfly-semaphore** library a fork of **redis-semaphore** and published on **NPM**
  - **Model Inferencing**: Built a **FastAPI**-based **inference service** around self-hosted **Llama 3.1 8B LLMs** via **Ollama**, containerized and deployed on **GKE**.
  - **Setup**: Setup self-hosted **Kafka** (Cluster-mode), **DragonFly** (Cluster Mode) and the entire **Observability stack** in **Prometheus + Loki + Grafana + AlertManager**
  - **Tech Stack:**:
    - **Languages**: Go, Terraform, TypeScript
    - **GCP:** GKE, Compute Engine, Networks, Application Loadbalancer, Storage, Cloud Functions, Cloud Armor, IAM
    - **Other Tools** Docker, Azure (AKS, Network, Storage container), AWS (EKS, LB, EC2, S3, RDS),GithubActions,Bun

- **Yahoo | Software Developer** — November 2022 - May 2024
  Bangalore, Karnataka
  - **DSP**: Worked on **Demand Side Platform** APIs that identifies and reports issues with Ad pipeline components
  - **SSP** : Worked on Supply Side Platform of Yahoo **Ad Tech** as a **Java** developer working with **Springboot** framework
  - **Tech Stack** : **Java, SpringBoot, Docker, AWS, SQL, Bash, Git/GitHub**

- **American Express | Analyst - Risk Management** — June 2022 - November 2022
  Bangalore, Karnataka
  - **Optimizing Algorithm**: Optimized Record Score algo by replacing Rule Based algo with **Neural Network(MLP)**.
  - **B2B/B2C Classification:**: Identifying B2B/B2C merchants using internal merchant data augmented with DnB data
  - **Record Linkage:** : Working on Record Linkage algorithm for global merchant data using **PySpark** and **Hive**

COMPETITIONS — PROJECTS — OPENSOURCE CONTRIBUTIONS

- **2vid.ai | AI Generated Video Ad Creator** — Dec 2024 - March 2024
  Bangalore, Karnataka — Tech Architecture
  - **AI Agent**: Created a **Agentic Flow** in **Python** with a series of Video, Audio and Text based services.
  - **LLMs:**: Used **Gemini** LLM and other open-source models like **Qwen2.5**, **Hualio**, **Video-Llama, LatentSync**
  - **Backend Hosting:**: Created a event-based Django backend using RabbitMq.Used **ffmpeg** for all video processing

- **2nd RunnerUp at Enterpreneure First GenAI Hackathon 2023** — Jun. 2023
  - Built a **Text-To-Video** model that can generate short Videos from text prompts or article URLs.
  - Created and hosted a **Django Server** on top of the model that could async create video from the prompt and send the output to given email-id. Achieved this using Celery and RabbitMq.
  - **Tech Stack & APIs**: Python, **Django**, **RabbitMq**, **Celery**, GCP, ElevenLabs APIs (text-to-speech)

- **OpenSource Contributor to qBitTorrent** — Jan 2025
  - Contributed to **qBitTorrent CLI** using **C++** for correct detection of **Windows OS**

- **Finalist in More than 4 National Hachakthons | Certificate** — 2017-present
  - Finalist in **Smart India Hackathon**,2020 and Finalist in 'AI for Transportation' Hackathon by NEC(1400+ teams)

PUBLICATIONS & PROJECTS

- **Publication in ACM/IEEE Joint Conference on Digital Libraries | Publication**:
  Academic Genealogy Graphs (AGGs) identify the lineage of researchers and highlight the roles of mentors and academic institutions in the evolution of a discipline. In this poster, we study **EduTree**, the AGG of the discipline of education.