GEEVE GEORGE

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EDUCATION

Hong Kong University of Science and Technology (HKUST) Current
PhD Student, Machine Learning & HCI — Advisor: Prof. Huamin Qu *Hong Kong*

- Research focus: Large Language Models, Group Relative Policy Optimization (GRPO), Diffusion Models.
- **Relevant Coursework:** High Performance Computing, Advanced Computer Vision, Reinforcement Learning.

Anna University 2017 – 2021
Bachelor of Computer Science Engineering *India*

EXPERIENCE

Bluebrain HK Aug 2025 – Present
Founder & Lead Research Scientist *Hong Kong*

- Founded a foundational AI research organization assembling PhDs from Alibaba Qwen and MiniMax to develop cutting-edge robotics and generative models.
- Architecting **Omni-models** for robotics, leveraging existing infrastructure from Helium Robotics to enable text/voice-controlled real-time avatars.
- Developing **Real-time Video Generation** pipelines, optimizing transformer architectures for high-throughput inference on constrained compute.

Helium Robotics Jun 2023 – Aug 2025
Head of Robotics *Hong Kong / Remote*

- Led a team of 10 engineers to build **Lamp-E**, an embodied AI robotic desk lamp with spatial awareness and emotional emulation capabilities.
- **Edge AI Optimization:** Spearheaded the development of a Vision-Language-Action (VLA) model capable of running solely on an **NVIDIA Jetson Nano**.
- Fused audio encoders (transcription, classification, emotion recognition) with visual encoders to create the first efficient Omni-model for edge hardware.
- Utilized **NVIDIA Isaac Sim** for Reinforcement Learning (RL) policy training, successfully transferring simulation policies to physical hardware (Sim2Real).
- Oversaw hardware-software co-design, including custom PCB fabrication, CAD design, and computer vision subsystems.

Bhindi.io Jun 2024 – Aug 2025
Lead Engineer & Architect *Hong Kong*

- Built the world's first **Agentic Wearable**, helping raise **$4M USD** in pre-seed funding.
- Engineered the firmware and on-board LLM transcription logic, optimizing latency for real-time interaction.
- Integrated 200+ API connections (Google Calendar, WhatsApp, Telegram) enabling autonomous complex workflow execution via voice commands.
- Oversaw full-stack development across iOS/Android implementations and backend agent orchestration.

Miko.ai May 2021 – Jun 2023
AI Researcher *Mumbai, India*

- Implemented RAG pipelines to enhance long-term memory and context retention for conversational agents.

SELECTED PROJECTS

- **Meta Project Aria Research Partner:** Sole research partner in Hong Kong for Meta's flagship AR program; developing assistive communication technology using eye-tracking smart glasses (Eleuto).
- **Stable Craiyon:** Combined Stable Diffusion and DALL-E Mini for optimized text-to-image synthesis (100+ Stars).
- **Panini-Net:** Designed a GAN-based framework for high-fidelity face restoration, focusing on generative detail recovery.

TECHNICAL SKILLS

- **Languages:** Python (Expert), C++ (Advanced - Firmware/Robotics), CUDA, Java.
- **Frameworks & Tools:** PyTorch (Expert), NVIDIA Isaac Sim, TensorRT, TensorFlow, JAX, Hugging Face.
- **High Performance AI:** Edge Inference Optimization, Quantization, LoRA/QLoRA, Speculative Decoding.
- **Model Architectures:** VLAs (Vision-Language-Action), Diffusion Transformers, LLMs, RAG, GANs.

SELECTED AWARDS & HONORS

- **HKSTP Techathon 2025 Winner** - 1st Place (Top 0.05%) among 2,000+ participants.
- **HKUST Hultz Prize Winner 2025** & **Lo Kwee Seong TechShip** (USD 25,500 Award).
- **RedBird PhD Award (2023)** - USD 5,130 Scholarship & Full Tuition Waiver.
- **Intel ISEF 2017** - 2nd Place Grand Award (USD 2,000); Minor planet named by MIT Lincoln Labs.