

SHUBHR GUNJAN

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quora.com/profile/Shubhr-Gunjan

EDUCATION

Bachelor of Technology (B.Tech) in Electronics & Communication Engineering

2024 – 2028

Relevant Coursework: Digital Signal Processing, Embedded Systems, Microprocessors, DSA, Computer Architecture

India

University of Helsinki (MOOC.fi)

2026

Java Programming I & II Certification — Passed with Distinction

Helsinki, Finland (Remote)

TECHNICAL SKILLS

Languages: Python, Java, C++, TypeScript, JavaScript, SQL, Bash

Robotics & Simulation: MuJoCo Physics Engine, MJCF Modeling, Three.js / WebGL, Forward/Inverse Kinematics, Teleoperation Protocols, PPO Reinforcement Learning (mjlal)

AI & Systems: Qdrant Vector Database, FastEmbed, Retrieval-Augmented Generation (RAG), Gemini API, DuckDB, Redis Streams & Pub/Sub, Docker, Linux Mint / Ubuntu

Web & Mobile: React, Next.js (App Router), React Native / Expo, Node.js, FastAPI, Tailwind CSS, PostgreSQL

EXPERIENCE & RESEARCH

OpenHorizon Labs & Autonomous Systems

Aug 2026 – Present

Humanoid Robotics & Simulation Software Engineer

Open Source / Remote

- Architected **VASIMOV**, an open-source MuJoCo simulation digital twin for the Menlo Asimov 1 humanoid robot, enabling **60 FPS** browser WebGL visualization with **<15ms network latency** by streaming binary joint-state transforms over WebSockets.
- Engineered a proprioceptive policy inference pipeline converting a **78-dimensional observation vector** (quaternions, 6-axis IMU, joint encoders) into **23 joint actuator target angles** at **50 Hz** using NumPy and Python.
- Developed the **Asimov 3D Web & Mobile Teleoperation Suite** using React Native/Expo and Three.js, bypassing React reconciler overhead to sustain real-time 16ms telemetry stream and live joint-limit monitoring.

EdgeMed Memory Lab (Code Cubicle 6.0 Hackathon)

Sep 2026 – Oct 2026

AI Systems Architect — Problem Statement PS03 (Edge Intelligence)

Hybrid / Virtual

- Designed an air-gapped synthetic clinical memory vault executing on-device local semantic vector search with **zero external cloud API leakage**, delivering **sub-120ms retrieval latency** on resource-constrained hardware.
- Engineered multi-tenant ingestion pipelines embedding synthetic EHR notes into a local **Qdrant** vector store, implementing AES-256 payload encryption and role-based access verification.

AndroPlay Systems

Sep 2026 – Present

Distributed Display Systems Engineer

Remote

- Engineered a zero-lag digital signage engine for the LG CreateBoard (TR3DK, Android 13) using **Redis Streams** and BLE, achieving **<20ms dual-standby playback synchronization** from mobile and web controllers.

The Artful Eye (Quora Publication)

2023 – Present

Creator, Curator & Tooling Developer

quora.com/profile/Shubhr-Gunjan

- Curated and authored essays on architectural geometry, lighting physics, and human spatial cognition, amassing thousands of readers; engineered **QuoraFormatter** browser extension to automate typography and layout structuring.

FEATURED PROJECTS

Nyaya Flow — AI Legal Navigation System

Sep 2026

TypeScript, React Native / Expo, Google Gemini, Gnani.ai STT, Firebase

shubhrgunjan.github.io/nyaya-flow

- Built a voice-first multilingual civic assistance platform translating citizen grievances into source-backed legal action steps; **officially shortlisted as a Finalist at the Build in AI for India Delhi Edition hackathon**.
- Integrated Google Gemini structured reasoning with Gnani.ai speech recognition models, handling noisy real-world audio inputs with **94%+ intent classification accuracy** across Indian regional languages.

UIKey — Universal UI/UX Extraction & AST Token Compiler

Oct 2026

TypeScript, Plasmio Browser Extension, Node.js AST, Next.js

github.com/shubhrgunjan/uikey

- Engineered a browser extraction engine and AST compiler that extracts computed styles, bounding boxes, and design tokens into hyper-compact JSON manifests, slashing prompt token overhead for LLM code generators by **65%**.

ExelSnap — Offline Desktop Spreadsheet AI

Oct 2026

Electron, React, DuckDB, SheetJS, Local LLM

github.com/shubhrgunjan/ExelSnap

- Created a desktop application executing natural-language SQL queries over large Excel and CSV workbooks using embedded **DuckDB**, preserving **100% offline data privacy** with zero cloud transmission.

HONORS & ACCOLADES

Shortlisted Finalist Developer: Build in AI for India (Delhi Edition) — Nyaya Flow (Gnani.ai, PW IOI, StartupNews.fyi)

Sep 2026

Hackathon Finalist: Code Cubicle 6.0 — EdgeMed Memory Lab (Problem Statement PS03 Edge Intelligence)

Sep 2026

Certificate of Distinction: University of Helsinki — Java Programming I & II (MOOC.fi)

2026