Raghav Joshi *Computer Science Engineer*

vkvraghavjoshi@gmail.com +371-26124955 Current: Riga, Latvia LinkedIn

PROFESSIONAL OVERVIEW

Computer Systems undergraduate at Riga Technical University with 4+ European scholarships, a completed Erasmus+ traineeship at CERN, and 2x Student Innovation Grant wins. Currently Technical Innovation Assistant at RTU's Science and Innovation Centre, previously MidLAB Manager (3D scanning, VR/AR, digital modelling) at RTU Design Factory. Founder of HearMe, an AI-driven platform for real-time sign language recognition and speech-to-sign translation. Leads GDG Riga & RTU, running workshops and hackathons for the developer community. Combines frontend engineering, applied AI, and innovation program management with a track record of shipping deployable, user-centric solutions.

ACADEMIC PROGRAMS & ACHIEVEMENTS

IDEA Square, CERN – Switzerland 25–30 January 2026
European Organization for Nuclear Research Geneva, Switzerland

- Selected as 1 of 15 university students worldwide for CERN's highly competitive IDEA Square innovation and research program.
- Engaged in interdisciplinary innovation activities, applying design thinking to develop novel, technology-driven concepts addressing real-world challenges.

Erasmus+ Scholarship (DACADU-CY AI-Driven Digital Worlds & Immersive Learning Programme) 9–14 February 2026
Cyprus University of Technology Limassol, Cyprus

- Selected for a competitive Erasmus+ Blended Intensive Programme focused on AI-driven digital environments, VR, and 21st-century skills.
- Programme includes virtual learning, face-to-face academic mobility in Cyprus, and a final interdisciplinary project presentation.

EXPERIENCE

Technical Innovation Assistant - RTU Science and Innovation Centre
February 2026 – Present | Riga, Latvia

- Managed MidLAB (July–October 2026), one of three labs within the Centre, specializing in 3D scanning, digital modelling, and VR/AR prototyping.
- Contribute to the development and refinement of university-led innovation projects - including an AI-based product for university students — translating research concepts into implementable solutions and structuring technical feasibility and application strategy.

Google Developer Group Lead - GDG Riga & GDG on Campus RTU
July 2026 – Present | Riga, Latvia

- Lead and grow the GDG Riga and GDG on Campus RTU developer communities.
- Organize workshops, hackathons, and technical talks for students and the wider developer community.

PROJECTS

Real Estate Voice Operator – AI Voice Business Assistant 03/2026
BadIdea Claude Hackathon | 3rd Place Techchill

- Built a voice-driven assistant that takes a phone call, looks up client and service data in Notion, generates an invoice PDF, and sends it via Gmail - fully hands-free.
- Architected two parallel approaches: an ElevenLabs-managed conversational pipeline and a Claude-powered "brain" using native tool-calling for multi-turn confirmation and execution.
- Integrated Notion, Gmail, Google Drive, and Telegram APIs into a single FastAPI backend, with locale-aware invoice templates (EN/LV/RU) and automated notifications.

Twinital - AI Digital Twin Platform for Educators 01/2026 – Present
Founder & Developer | Ongoing

- Built an AI-powered digital twin platform enabling university professors to create interactive virtual replicas of themselves for student engagement and academic support.
- Co-authored an academic paper on the platform's design and application with RTU faculty, bridging product development with research validation.

Two-Way AI Communication System for Hearing & Speech Impaired Users 11/2025 – Present
Regional Qualifier Microsoft Hackathon | 2 Student Innovation Grant Winner

- Built a real-time, AI-powered communication platform enabling natural conversation between deaf and hearing users without interpreters, without either party learning sign language.
- Engineered a bidirectional pipeline: sign language is converted to speech for hearing participants, while speech is converted to text and rendered as live animated sign language for deaf participants.

SKILLS

AI & Product Development
LM Integration & Orchestration (Claude, OpenAI APIs), Retrieval-Augmented Generation (RAG), Prompt Engineering, Rapid AI Prototyping, End-to-End Product Building

Project & Innovation Management
Cross-Functional Team Leadership, Hackathon & Program Organization, Technical Feasibility Assessment, Stakeholder Collaboration, Fast Learner Self-Directed on New Tools & Stacks

Programming & Core CS
Java, Data Structures & Algorithms, Object-Oriented Programming, Problem Solving, Responsive Web Design, UI/UX Principles, Git & GitHub

EDUCATION

Bachelor in Computer Systems (8.9 Cgpa) 01/2025 – Present
Riga Technical University Riga, Latvia