

# BILAL RANA

NUST H-12, Islamabad

+923281177351

[bilalrana351@gmail.com](mailto:bilalrana351@gmail.com)

[linkedin.com/in/bilalrana351](https://www.linkedin.com/in/bilalrana351)

[github.com/bilalrana351](https://github.com/bilalrana351)

## Education

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### National University of Science and Technology

Bachelor of Science in Computer Science

Grade: 3.87/4

### Punjab College of Science

Faculty of Science in Engineering

Grade: 1056/1100

## Experience

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### Indexy

Founding Engineer

Jan 2026 – Present

Toronto, Ontario, Canada · Remote

- Scraped ChatGPT, Gemini, and Perplexity 10,000 times a day via headful browsers and proxy with 99.9% success.
- Helped achieve SOC2 compliance for the platform.

### CloserCoach

Software Engineer

Sep 2025 – Jan 2026

United States · Remote

- Built APIs serving 36,000+ daily users for an AI-powered sales coaching platform.
- Migrated the entire infrastructure from Replit to AWS ECS for scalability and reliability.

### Midtown Stays (Corzly)

Software Engineer

Feb 2025 – Sep 2025

United States · Remote

- Automated 20+ hours/month of manual owner statement generation, speeding up the process by 10x.
- Built a Command Center for property rentals and owner payouts using Nest.js, FastAPI, and AWS S3.

### Upwork

Freelance Software Engineer

Sep 2024 – Feb 2025

Remote

- Earned \$20K+ on the platform with 450+ hours of work completed across 16 clients.
- Achieved Top Rated status through consistent delivery of full-stack and AI engineering projects.

## Projects

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### Binary Battle | Django Channels, WebSockets, Next.js, PostgreSQL, Redis, Docker

Completed

- Developed a real-time coding platform using Django Channels and WebSockets for low-latency communication.
- Implemented a friend system with messaging, coding challenges, and real-time collaboration.
- Used PostgreSQL for structured data storage and Redis for managing WebSocket connections.
- Deployed a containerized code execution service with Docker for secure, isolated execution of user submissions.

### Live Demo: [BinaryBattle](#)

### InterviewAI | Express.js, FastAPI, React.js, ShadcnUI, Vapi.ai, Redis, GPT-4o

Completed

- Built a platform that automates technical interviews using real-time, voice-based AI via Vapi.ai and GPT-4o.
- Implemented automated coding and system design rounds with CV parsing and candidate scoring.
- Developed an anti-cheating system ensuring interview integrity across voice, coding, and design rounds.
- Built with Express.js and FastAPI backend, React.js + ShadcnUI frontend, and Redis for session management.

### Live Demo: [InterviewAI](#)

## Technical Skills

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**Programming Languages:** Python, JavaScript, Golang, Rust

**Backend Frameworks:** Django, FastAPI, Flask, Express.js, Nest.js, Gin

**Frontend Frameworks:** React.js, Vue.js, Shadcn UI, Daisy UI, Material UI

**Databases:** PostgreSQL, MongoDB, MySQL, SQLite

**LLM Frameworks:** Langchain, LlamaIndex, Deepinfra, LiteLLM, Dspy

**Vector Databases:** PineconeDB, Qdrant, ChromaDB, Weaviate

**Cloud Providers:** AWS, Azure, Netlify, GCP, Vercel