Haroon Saleem
Middle Full Stack Software Engineer | Voice over IP, SIP Trunking, Software / Electrical Engineer

SUMMARY

Software engineer with 3+ years of experience specializing in VoIP technologies including SIP trunking, WebRTC, and voice API integration. Holds a Bachelor's in Electrical and Computer Engineering and pursuing MS in Electrical, Electronic, and Communications Engineering. Proven expertise in designing scalable microservices architectures, asynchronous processing, and implementing CI/CD pipelines with infrastructure-as-code. Skilled in Python, Django, REST/GraphQL APIs, and full-stack development delivering real-time, reliable voice and web platforms.

TECHNICAL SKILLS

Main Technical Skills	VoIP (2 yr.), SIP (2 yr.), Python (1 yr.), Django REST framework
Programming Languages	Python (1 yr.)
Python Frameworks	Django REST framework
JavaScript Libraries and Tools	p5.js (2 yr.)
Amazon Web Services	AWS Security Groups (2 yr.)
Azure Cloud Services	Azure VM (2 yr.)
SDK / API and Integrations	API (2 yr.), GraphQL (2 yr.)
Third Party Tools / IDEs / SDK / Services	Asterisk
Deployment, CI/CD & Administration	CD DevOps pipelines (2 yr.)
QA, Test Automation, Security	JUnit (2 yr.)
Soft Skills	Mentor Aptitude
Methodologies, Paradigms and Patterns	microservices (2 yr.), REST (2 yr.)
Message/Queue/Task Brokers	MQQT (2 yr.)
Platforms	Red Hat OpenShift Container Platform
Logging and Monitoring	SIP (2 yr.)

upstaff.com/profile/600-274-017-haroon-saleem-full-stack-software-engineer-voice-over-ip-sip-trunking-software-electrical-engineer
Updated on: March 8, 2026

1

Mail / Network Protocols / Data transfer	VoIP (2 yr.), WebRTC (2 yr.)
Other Technical Skills	Caching (2 yr.), Packet Trace (2 yr.), Solution limitations assessment (2 yr.)

HAROON SALEEM

Electrical Engineer & Software Developer

Islamabad, Pakistan • +92 317 5255198 • haroonhsa1234@gmail.com

GitHub: https://github.com/Haroonhsa007

LinkedIn: https://linkedin.com/in/HaroonSaleem007

PROFESSIONAL SUMMARY

Full Stack Developer and Electrical Engineer with expertise in AI-powered systems, embedded solutions, and scalable web applications. Proven track record in developing real-time VIOP telephony systems, CRM platforms, and hardware-software integration projects. Strong foundation in both modern software development and electrical engineering fundamentals.

EDUCATION

MSc Electrical & Computer Engineering (2024--Present)

National University of Science & Technology, Islamabad, Pakistan

BSc Electrical & Computer Engineering (2020--2024)

Capital University of Science & Technology, Islamabad, Pakistan

Final Year Project: Enhanced Palm Print Identification System Using Document Scanner (2nd Place)

PROFESSIONAL EXPERIENCE

Full Stack Developer (January 2024 -- January 2026)

VEEIVS, Islamabad, Pakistan

- Built a real-time System using the Telnyx and Twilio Voice API with custom web-hook-based call control and routing logic

- Integrated and managed multiple voice API carriers, unifying call flows, routing, and observability across providers (SIP/VoIP, WebRTC)

- Design and management of in house Soft-Switch, along with isolation tenet-wise. Configured Homer and Sngrep for monitoring of sip flow

- Designed and developed a multi-campaign CRM with fine-grained permission management, call logs, user analytics, and embedded dialer tools

- Integrated Stripe via secure web-hooks to automate plan creation, payment processing, and transaction handling

- Developed and deployed custom REST APIs in Django for frontend integration (React, Vite, Expo)

Full Stack Developer (April 2023 – December 2023)

Mar's LLC, Rawalpindi, Pakistan

- Engineered an AI Assistant pipeline leveraging Livekit, Deepgram, ElevenLabs, and Vapi

- Designed and developed a multi-campaign CRM

- Developed and deployed custom REST APIs in Django for frontend integration (React, Vite, Expo)

Trainee Engineer – VSAT Engineering Department (Aug 2022--Sep 2023)

Pak Datacom Limited, Islamabad, Pakistan

- Monitored and optimized VSAT satellite communication systems for real-time remote connectivity

- Improved link establishment between remote sites and HQ through infrastructure validation and tuning

- Reduced system downtime through proactive hardware diagnostics, testing, and operational documentation

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C/C++, C#, Verilog/VHDL, MATLAB

Web Technologies: Django, React, Node.js, HTML5, CSS3, REST APIs, WebRTC, SIP

AI & Machine Learning: Deepgram, ElevenLabs, Vapi, Telnyx AI, OpenCV, TensorFlow, Computer Vision

Telephony & Communication: Telnyx, Twilio, Asterisk, Freeswitch, Kamalio, OpenSips, WebRTC, SIP, VSAT Systems

Hardware & Embedded: STM32, Arduino, FPGA (Xilinx), PCB Design, Proteus, Circuit Analysis, Digital Logic

Cloud & DevOps: AWS (EC2, S3, RDS), Docker, GitHub Actions, CI/CD, NGINX, Linux

Databases & Tools: PostgreSQL, SQLite, MySQL, Git, Postman, Unit Testing (PyTest)

System Administration: Windows Server, Active Directory, DNS, DHCP, PowerShell, VPN, WSUS

KEY PROJECTS

Voice-Enabled AI Assistant: Integrated Deep-gram, Vapi, ElevenLabs, and Telnyx AI into a real-time assistant for dynamic call flow interaction with webhook-controlled telephony systems

Multi-Campaign CRM Platform: Developed a comprehensive CRM with call analytics, an embedded dialer, a fine-grained permission system, and real-time user analytics

Enhanced Palm Print Recognition: An advanced biometric authentication system using document scanner imagery with Python/MATLAB implementation for high-security applications

FPGA Image Processing: Implemented sharpness and smoothing filters on FPGA Spartan 3 using MATLAB and Verilog for real-time image processing

Dockerized Microservices: Containerized Django and Node.js microservices for AWS deployment with scalable cloud infrastructure

UP upstaff.com/profile/600-274-017-haroon-saleem-full-stack-software-engineer-voice-over-ip-sip-trunking-software-electrical-engineer
Updated on: March 8, 2026

3

AREAS OF EXPERTISE

Full Stack DEV, AI-Powered Voice Systems, Embedded Systems, Telephony APIs, DevOps, CRM Design, WebRTC, Microservices, Cloud Architecture, Secure Payments Integration, Hardware-Software Co-design, IoT Systems, Real-time Systems, OpenSips Certified

CERTIFICATIONS

- Full Stack Developer 101: https://simpli-web.app.link/e/lWvfwZ7ibZb

- Python Django 101: https://simpli-web.app.link/e/6HArXGhjbZb

- Asterisk Certified Essentials: https://www.linkedin.com/posts/haroonsaleem007_asterisk-sangoma-voip-activity-7404250455683579904-G4fu?utm_source=social_share_send&utm_medium=member_desktop_web&rcm=ACoAAFHadKABVW-fma9V-NYiSPEU0x3e8Pqysb4

- OpenSIPS Training 3.2: https://www.linkedin.com/posts/haroonsaleem007_opensips-voip-telecom-activity-7404250737297551360-NeB5?utm_source=social_share_send&utm_medium=member_desktop_web&rcm=ACoAAFHadKABVW-fma9V-NYiSPEU0x3e8Pqysb4

- PBXact Certified Essentials: https://www.linkedin.com/posts/haroonsaleem007_pbxact-sangoma-certification-activity-7404285325239492608-DHvo?utm_source=social_share_send&utm_medium=member_desktop_web&rcm=ACoAAFHadKABVW-fma9V-NYiSPEU0x3e8Pqysb4

ACHIEVEMENTS

2nd Place – Final Year Project: Enhanced Palm Print Identification System (2024)

Strong academic performance in Electrical & Computer Engineering Published technical documentation and system architecture designs

upstaff.com/profile/600-274-017-haroon-saleem-full-stack-software-engineer-voice-over-ip-sip-trunking-software-electrical-engineer
Updated on: March 8, 2026

4