

Shigraf Salik

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Skills

Languages: C++, C, Java, SQL, JavaScript, Python, Rust, HTML, CSS

Libraries/Frameworks: PyTorch, TensorFlow, NumPy, Pandas, Matplotlib, Seaborn, Node.js, Express.js

Software/Tools: Microsoft SQL Server, VS Code, Jupyter, Git, MongoDB, Docker, Postman

Platforms: Windows, Ubuntu, Kali, Colab, Google Cloud, AWS, Arduino, Raspberry Pi

Human Languages: English, Hindi, Urdu, Bengali

Education

B.Tech in Computer Science, MAKAUT

Sept 2022 – May 2026

Relevant Coursework: Computer Architecture, AI, Learning Algorithms, Computational Theory

Experience

Software Engineering Intern, SE Indian Railways – Kolkata

Jul 2025 – Aug 2025

– Optimized Oracle DB archival systems, improving query speed.

– Maintained legacy DB, supported backup/recovery infra, and improved backend security.

ML Engineer, Heva AI – Kolkata

Oct 2024 – Nov 2024

– Worked on EEG-based time-series data; implemented MViT & optimized ViT models.

– Deployed models on GCP and optimized performance.

Student Campus Ambassador, Jurni.io (Remote)

Oct 2023 – Nov 2023

– Boosted newsletter readership by 200+ via outreach and Instagram campaigns.

– Recruited 10+ students, helped manage social media growth.

Open Source Contributions

Neuroinformatics Unit: Refactored `kinematics.py` into modular subpackage, added Parquet IO support (#583, #562)

Embox OS: Added unit tests for `scalb()` ensuring POSIX/IEEE compliance (#3631)

WasmEdge: Added C API method for VM module deletion to improve lifecycle management (#4233)

Open Chromosome Collective: Enhanced BED file parsing, CLI input checks, and column handling in `cooler` & `pairtools` (458, 268)

Projects

TTS Fine-tune – github.com/ShigrafS/TTS

– Finetuned Microsoft SpeechT5 on Hindi + technical English dataset using PyTorch.

Transformer Paper Replication – github.com/ShigrafS/Transformer

– Built Transformer model from scratch to understand LLMs (Vaswani et al. 2017).

Vision Transformer (ViT) – github.com/ShigrafS/ViT

– Implemented Dosovitskiy et al. 2021; focused on vision-specific transformer use.

DoggoVision – github.com/ShigrafS/DoggoVision

– Trained MobileNetV2 on Stanford Dog dataset using TensorFlow for breed recognition.

Additional Highlights

Scouts & Guides (2010–2013): Patrol Leader, led treks/camps.

Prefect (2012–13, 2019–20): Led school houses and represented in competitions.

Best Speaker: Awarded in school-level senior debate.

Writing: “We Are Living in a Borrowed World” — Medium (Jan 2026) – Philosophical essay on credit, deferred labor, and systemic fragility in modern economies. [Link](#)