

# Shigraf Salik

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## Skills

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**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

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**B.Tech in Computer Science**, MAKAUT

Sept 2022 – May 2026

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

## Experience

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**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

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**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

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**TTS Fine-tune** – [github.com/ShigrafS/TTS](https://github.com/ShigrafS/TTS)

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

**Transformer Paper Replication** – [github.com/ShigrafS/Transformer](https://github.com/ShigrafS/Transformer)

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

**Vision Transformer (ViT)** – [github.com/ShigrafS/ViT](https://github.com/ShigrafS/ViT)

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

**DoggoVision** – [github.com/ShigrafS/DoggoVision](https://github.com/ShigrafS/DoggoVision)

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

## Additional Highlights

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**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](#)