

Aryan Purohit

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SUMMARY

Full-stack & AI engineer skilled in building production-grade web services, scalable backends, and ML-powered interfaces. Strong Python and JavaScript foundation with experience shipping end-to-end products (frontend, backend, auth, persistence). Rapidly prototypes and productionizes features focused on performance, reliability, and user impact.

SKILLS

Languages: Python, JavaScript (ES6+), C/C++, SQL

Frontend: React, React Native, Tailwind CSS, HTML/CSS

Backend & Infra: Node.js, Express, REST APIs, Firebase (Auth, Firestore), SQLite, MySQL

ML / Signal Processing: NumPy, scikit-learn, DSP fundamentals, model evaluation

Tools: Git, GitHub, SQLite, MATLAB, Arduino

TECHNICAL PROJECTS

Lapis — AI Code Translator (Full-stack) • React, Python, Firebase

- Built a production-style full-stack app that translates code between languages using generative models; reduced manual conversion effort for early testers by **~60%** and increased translation relevance by **~35%** through prompt refinements.
- Implemented a stateless Python translation service with caching and Firestore persistence for user histories; supported concurrent user sessions and history retrieval under 100ms latency for common queries.
- Secured authentication with Firebase Auth and added role-based access to enable private/shared workspaces.

Muse Telepathy — BCI → IoT Controller • React Native, DSP, Muse SDK, SQLite

- Engineered an EEG-based controller mapping Muse headband signals to IoT commands; improved command classification stability by **~40%** through custom DSP pipeline (bandpass, artifact rejection, smoothing).
- Built a mobile React Native client with real-time EEG visualizations and a local SQLite calibration cache to personalize command thresholds and cut false positives.

Garhwali Dictionary — Language Preservation Platform • React, Node.js, Express, MySQL, Python

- Architected a searchable dictionary service and React frontend for the Garhwali language; processed and normalized **10k+** lexical records via Python ETL scripts.
- Designed a low-latency Express API and implemented client-side caching to support offline/low-bandwidth usage in rural contexts.

EDUCATION

Arizona State University (ASU) — Tempe, AZ B.S. + M.S. Computer Science (4+1) • Expected May 2027

LEADERSHIP EXPERIENCE

Section Leader, ASU 101 — Arizona State University (Aug–Dec 2024)

- Mentored 80+ incoming students, led weekly sessions, and coordinated communication to improve participation and on-boarding outcomes.

Global Career Network — ASU (Sep 2024–Present)

- Organized career-development workshops and peer mentorship sessions focused on technical interviewing and resume preparation.