Aryan Purohit

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SUMMARY

Computer Science student at Arizona State University with hands-on experience developing full-stack applications, AI-powered tools, and mobile solutions. Proficient in Python, React, and Node.js, and eager to apply a strong foundation in software engineering to solve complex problems in a challenging internship role.

EDUCATION

B.S. Computer Science; Computer Gaming certificate   **Graduating May 2026**

Arizona State University, Tempe, AZ

Professional SKILLS

Languages: Python, JavaScript, C/C++, SQL
Frameworks & Libraries: React, React Native, Node.js, Express.js, Tailwind CSS
Databases: MySQL, SQLite, Firebase (Firestore)
Developer Tools & Other: Git, GitHub, REST APIs, Signal Processing, MATLAB, Arduino

TECHNICAL PROJECTS

Lapis | AI-Powered Code Translator   **May 2025-Present**
- **Technologies:** React, Python, Tailwind CSS, Firebase (Authentication & Firestore)
- Developed a **full-stack web application** that leverages generative AI to translate code snippets between multiple programming languages, simplifying code migration and refactoring for developers.
- Architected a **Python backend** that interfaces with generative AI models, engineering precise prompts to ensure high-accuracy, context-aware code conversions.
- Built a **sleek, responsive user interface** with React and Tailwind CSS, featuring real-time input and syntax highlighting to create an intuitive user experience.

Muse Telepathy | Brain-Computer Interface (BCI) Controller   **July 2024 - August 2024**
- **Technologies:** React Native, SQLite, Muse Lab SDK, Signal Processing
- Engineered a **proof-of-concept mobile application** using React Native to control IoT devices through brainwave data streamed from a Muse EEG headband.
- Developed **custom signal processing algorithms** to filter raw EEG data, successfully isolating specific neural signatures to translate user intent into actionable commands.
- Implemented a **user-specific calibration system** with SQLite, improving command accuracy and system responsiveness by storing and recognizing individual neural patterns.

Garhwali Dictionary | Digital Language Preservation Platform   **June 2024 - July 2024**
- **Technologies:** React, Node.js, Express.js, MySQL, Python
- Spearheaded the creation of one of the **first digital Garhwali dictionaries**, an application designed to preserve and promote a unique cultural language for a new generation of learners.
- Constructed a **robust RESTful API** using Node.js and Express.js to efficiently manage and serve thousands of dictionary entries from a MySQL database.
- Automated the **data pipeline** by writing Python scripts to aggregate, parse, and clean lexical data from various sources, ensuring the dictionary's comprehensiveness and accuracy.

LEADERSHIP EXPERIENCE

Section Leader, ASU 101 | Arizona State University   **Aug 2024 - Dec 2024**
- **Guidance & Mentorship:** Provided personalized guidance to over 80 first-year engineering students, helping them navigate university life and develop long-term academic and career plans.
- **Communication & Public Speaking:** Delivered presentations to large student groups to explain key university programs and engagement opportunities, driving student involvement.
- **Conflict Resolution & Team Building:** Successfully resolved interpersonal conflicts within student teams, fostering a positive and collaborative atmosphere that improved group productivity.

EXTRACURRICULAR EXPERIENCE

Global Career Network at Arizona State University, Tempe, AZ   **09/2024 - Present**
- Fostered professional development and built meaningful connections by collaborating with peers in a diverse, inclusive student organization.