

Tahiyya Firdouse

Software Engineer

github.com/Tahiyya19 | candidates.intervues.club/u/tahiyya-firdouse

SUMMARY

Software Engineer with background in robotics, corporate partnerships, and communications. Demonstrated experience in leading outreach, project execution, and team management across various initiatives and technical domains.

EXPERIENCE

Red Bull Student Marketer

Corporate Partnerships & Outreach

Aug 2026 – Present

- Led corporate outreach initiatives for Red Bull's student marketing program, engaging partners to secure on-site sampling permissions.
- Managed end-to-end email communication with corporate stakeholders from initial pitch to formal approval, securing partnerships with 4 companies.
- Served as the primary point of contact between the brand and corporate partners to ensure professional communication throughout the partnership lifecycle.

Corporate English Trainer

Independent

Jul 2026 – Present

- Delivered one-on-one business English and communication coaching to professionals across multiple companies, designing personalized lesson plans.
- Focused on workplace communication, presentation skills, and professional fluency tailored to individual learning styles.
- Tracked client progress over time, achieving measurable improvement in spoken and written English proficiency for 11 clients across 11 companies.

Vice President

Socio-Political Club

Jan 2025 – Present

- Managed the club's budget and expenditures while coordinating funding for events and initiatives.

Former Marketing Officer

Yuvaratna NGO

Jan 2024 – Jan 2025

- Led outreach and promotional campaigns for NGO initiatives, coordinating with volunteers and community partners to increase event visibility.

Member

Hawkeye Robotics Team, NHCE

Jan 2024 – Present

- Collaborated with a multidisciplinary team to design, build, and test robotics systems for inter-collegiate competitions.

Class Representative

Mount Carmel Pre-University

Jan 2022 – Jan 2023

- Served as liaison between students and faculty, relaying academic concerns and coordinating class activities.

EDUCATION

New Horizon College of Engineering · B.E. · 2024 – 2028

Mount Carmel PU College · Pre-University / Class XII · 2022 – 2024

Baldwin Girls' High · Class X (ICSE) · 2020 – 2020

SKILLS

Languages and Frameworks: C, CSS, HTML, Java, JavaScript, Python, SQL, TypeScript, React, TensorFlow.js

Databases: MongoDB, MySQL

Tools: Cloud Computing, Firebase (Authentication & Firestore), Git, GitHub, Object-Oriented Programming, Recharts, Vite

PROJECTS

TriNETRA (AI-Powered Adaptive RF Intelligence) — Smart India Hackathon

Designed an AI-driven adaptive RF spectrum scan scheduler for Electronic Warfare that replaces fixed-sequence scanning with belief-state-driven intelligent prioritization. Utilized Python, Reinforcement Learning (PPO/DQN), Whittle Index, and RF Simulation to develop belief-state-driven frequency prioritization.

Python, Reinforcement Learning (PPO/DQN), Whittle Index, RF Simulation

Vyomflow (Cognitive Risk Screening Platform)

Built a cognitive screening platform with interactive assessments and real-time analytics supporting 7 assessment types. Developed frontend components using React, TypeScript, Vite, Firebase, Python, and TensorFlow.js.

React, TypeScript, Firebase, Python, TensorFlow.js

UniRide (University Carpool Platform)

Developed a university ride-sharing platform for ride booking and passenger matching. Built authentication, ride management, and role-based dashboards for riders, drivers, and admins using HTML, CSS, JavaScript, Python, MySQL, and Git.

HTML, CSS, JavaScript, Python, MySQL, Git

AWARDS

Winner: Health & Medical Category, CMRIT Expo, Ranked 13th of 278 teams: Smart India Hackathon (SIH) internal selection round, Honourable Mention (top 5 of 30 teams): Hackathon organized by IEEE (Vibethon), Winner (of 20 teams): ISTE RoboRace Competition, Winner (of 25 teams): QuantumX Line Follower Competition, 2nd Place (of 20 teams): QuantumX RoboRace Competition, Honourable Mention (among 100 delegates): Model United Nations (MUN) – NHMUN, Cloud Computing, NPTEL, AI Data Strategy, MongoDB, AI Agents, MongoDB, Vector Search Fundamentals, MongoDB, RAG, MongoDB