Ahad Rahman

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EDUCATION

Rice University **Houston, TX**

Bachelor of Science, Electrical and Computer Engineering *Expected May 2030*

Honors: Gates Scholar; Amazon Future Engineer Scholar (incoming Amazon intern, Summer 2027); Rice Emerging Scholars Program

Coursework: Computational Thinking (Python), Fundamentals of Computer Engineering (computer architecture), Multivariable Calculus, Mechanics, Bias and Medical Device Design

EXPERIENCE

Software Engineer – RiceApps (NEST360) **Sep. 2026 – Present**

- Shipped a redesigned resources page for NEST360, a newborn-health nonprofit, adding topic filtering, sorting, and color-coded tags with in-browser filtering by implementing a Figma design across 6 merged pull requests.
- Built reusable resource-gallery frontend components with a student team, using Git pull requests and code review.

Undergraduate Researcher – Yamagami Lab, Rice University **Sep. 2026 – Present**

- Building a gesture-recognition pipeline for accessible XR input for patients with motor disabilities, comparing SVM, Random Forest, and MiniRocket time-series classifiers trained on video-sensing data in Python.
- Collected and processed a self-recorded dataset of 121 videos across 3 gestures; all three classifiers exceed 95% accuracy on held-out recordings in preliminary results, presented in lab meetings.

Software Engineering Intern – AscentUP **Jul. 2026 – Aug. 2026**

- Surfaced 20 bugs across 7 modules of a partner health startup's app, including a high-severity blocker, through UI testing, Next.js codebase tracing, and SQL checks against a 41-table Supabase (PostgreSQL) database.
- Unblocked 3 dependent bug fixes and shipped 2 production fixes by resolving 6 dev-environment blockers (Docker, Supabase, Git) through systematic log analysis, documenting each fix for the team.

PROJECTS

Gomoku AI – RESP Program, Rice University **Jun. 2026 – Aug. 2026**

- Raised the win rate against the hardest bot from 70% to 100% by using playtesting to find and fix a directional bias in the opening play of a Python (NumPy) minimax engine.
- Measured every strategy change with tournament testing (n=20 games per matchup), reaching 100% against peer bots; earned one of 38 first-year presentation spots at Rice's STEM Symposium.

ECODASH – Klein Hacks (3rd Place, Group Innovation) **Feb. 2026**

- Won 3rd place by building and pitching a full-stack marketplace matching unwanted items with neighbors, haulers, and recyclers in Next.js, React, TypeScript, and Supabase within the hackathon time limit.

LEADERSHIP

Program Manager & Research Intern – Teens in Health **Jul. 2024 – Aug. 2026**

- Guided cohorts of 80+ interns to completed medical projects by setting timelines and reviewing deliverables; authored a 17-page research paper synthesizing 30+ sources.

Academic Tutor – IQ Viet My Tutoring Center **Mar. 2026 – Jun. 2026**

- Raised student scores by 30% in math, science, ELA, and history by tutoring students ages 11–14 on STAAR standards.

Founder & President – Red Cross Club, Klein Forest High School **Sep. 2024 – May 2026**

- Grew the club to 70+ active members and raised $300+ for the Measles & Rubella Initiative by organizing fundraisers, donation drives (700+ items for veterans), and first-aid training.

TECHNICAL SKILLS

Languages: Python (NumPy), C++, TypeScript/JavaScript, SQL, HTML/CSS

Frameworks & Tools: Next.js, React, Supabase (PostgreSQL), Git/GitHub, Docker, Figma

Concepts: Object-oriented design, algorithms (minimax search), machine learning (SVM, Random Forest, MiniRocket), debugging and QA testing

Activities: RiceApps, HackRice, SHPE, RSA Communications Team