

# AMEEN PATEL

EMAIL: AMEEN.PATEL.210@GMAIL.COM

## EDUCATION

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**Irvington High School:** Class of 2027

**Unweighted GPA:** 3.98, **Weighted GPA:** 4.64

**Coursework:** AP Computer Science A, AP Macroeconomics, AP World History, AP English Language and Composition, AP US History, AP Calculus BC, AP Physics 1, AP Physics C: Mechanics, AP Physics C: Electricity and Magnetism

## EXPERIENCE

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### STANFORD TRUSTWORTHY AI RESEARCH (STAIR) LAB - MULTILINGUAL LLM SAFETY

STANFORD UNIVERSITY

*Lead Researcher*

*Dec 2025 – Present*

- Collaborating with the Stanford Assistant Professor Sanmi Koyejo and PhD candidate Sang Truong to evaluate safety vulnerabilities in multilingual Large Language Models.
- Designing statistical frameworks to isolate genuine safety failures from translation artifacts in low-resource languages.
- Conducted experimental design and data grading with a co-first author paper accepted at a main-track ML conference, COLM 2026.
- Paper: [arXiv](#).

### RESEARCH INTERN - MECHANISTIC INTERPRETABILITY

STANFORD UNIVERSITY

*Lead Researcher*

*Dec 2025 – Present*

- Collaborating with the Stanford PhD candidate Nathan Hu to evaluate automated circuit tracing with Large Language Models.
- Extending Anthropic's open-source circuit tracing framework to automate identification of interpretable circuits in transformer models, with a first-author paper accepted as an in-person poster presentation to the Mechanistic Interpretability workshop at ICML 2026.

### ALGOVERSE RESEARCH

REMOTE

*Research Internship Paper Lead*

*Nov 2024 – Oct 2025*

- First-authored a research paper investigating how emotional stimuli prompting affects LLM performance across three benchmark datasets, accepted to the AACL IJCNLP Student Research Workshop. Paper: [arXiv](#).
- Built an automated emotional prompt generator and sentiment analysis pipeline in Python; applied Fleiss' Kappa to measure inter-annotator agreement across generated prompts.
- Presented poster at AACL IJCNLP 2025 in Mumbai, India, demonstrating that emotionally-framed prompts produced measurable shifts in model accuracy relative to neutral baselines.

### DEEN

REMOTE

*Tech Team Fellow*

*Jun 2026 – Aug 2026*

- Accepted to the ABSA x Deen Fellowship, an internship that is targeted towards college students. Deen is an Islamic app that provides accurate references, lessons, and a chatbot to learn more about the religion of Islam.
- As a tech team fellow, I contribute to the app's multilingual quality in user experiences and information accuracy with chatbot evaluation and reliability tooling.

### BEAVER WORKS SUMMER INSTITUTE (BWSI) @MIT

REMOTE

*Summer Program*

*July 2026 – Aug 2026*

- Accepted to the Serious Games With AI cluster.

### MICRONEST TECHNOLOGIES

REMOTE

*Software Engineering Intern*

*June 2025 – August 2025*

- Engineered scalable back-end infrastructure for the company's core web platform, optimizing API response times and ensuring high data integrity.
- Conceptualized and developed a custom AI tool leveraging GPT-4 to automate enterprise tools for businesses.
- Integrated machine learning models into the existing production environment, building secure communication between the AI service and the front-end application.

## EXTRACURRICULAR ACTIVITIES

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### IRVINGTON PHYSICS CLUB

FREMONT, CA

*President/Co-founder*

*Dec 2025 – Present*

- Restored the club and its funds collected in the past after it had closed due to inactivity in the past years.
- Hosting weekly meetings and organizing a team of 8 officers to create AP Physics 1 and Physics olympiad curriculum.

- Hosting the annual  $F=ma$  olympiad at the school, with the highest number of signups in club history.

## IRVINGTON MATH CLUB

FREMONT, CA

### *President*

*Aug 2025 – Present*

- Created a curriculum to teach lectures on various topics, adding a specific series to tutor students for 10th grade students' Precalculus classes.
- Leading a volunteering initiative at a local middle school (Horner Middle School) to prepare and coach 14 students for the MATHCOUNTS national middle school competition. Managing a team of 8 volunteers and delegated curriculum development such as worksheets, lessons, and problems.
- Doubled club membership from 10-15 members to 20-30 consistent members for weekly meetings.

## SCHOOLHOUSE TUTORING

REMOTE

### *Bronze Tutor*

*Oct 2025 – Present*

- SAT Math Tutor: created a weekly curriculum covering 4 math domains to teach a total of 10 students SAT Math in two monthly bootcamps. Bootcamps are "highly engaging," with 7+ sessions of tutor talk time under 90% of total class time. Held onboarding sessions for new SAT tutors.
- AMC 8 Instructor: co-hosted a winter bootcamp for 4 weeks, with two classes each week, about Algebra, Number Theory, Geometry, and Combinatorics. Prepared a comprehensive curriculum which covers each topic in depth with 4 slide presentations, practice tests, and review sessions.
- Certified to teach Algebra, SAT Math, SAT Reading and Writing.

## PROJECTS

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**Safety-irt GitHub Repository:** Published a GitHub repository in the AI Measurement Science group at Stanford University ([GitHub Repository](#))

**Circuit-tracer-automation GitHub Repository:** Published a GitHub repository for automated circuit tracing, building on code from the original circuit-tracer repository. ([GitHub Repository](#))

**Torch\_measure GitHub Repository:** Contributed to the torch\_measure repository in the AI Measurement Science group at Stanford University. Added a multifaceted two-parameter logistic IRT model and a tutorial file to the repository ([GitHub Repository](#))

**housingAid:** Created a multilingual, voice-enabled assistant that helps Santa Clara County applicants complete the CalWORKs Homeless Assistance packet. The applicant answers each common question once (by voice, in their language or text); the tool reuses those answers across every form, explains confusing form language in plain terms, and generates completed .docx files with the answers inserted as Word tracked changes. Published a GitHub repository ([GitHub Repository](#)) and website ([GitHub Repository](#)).

**Emotional Prompting:** Programmed code infrastructure of a prompt generator and sentiment analysis pipeline along with human-created emotional stimuli prompts which were used to train the prompt generator. Statistical testing was used to verify agreement in ratings of emotion levels given to the human-created prompts.

**Fall Guys AI Agent:** Programmed and trained a vision-based reinforcement learning agent to play Fall Guys, processing in-game frames and using continuous fine-tuning to optimize agent decision-making.

## SKILLS

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**Programming Languages:** Python, Java

**Frameworks/Libraries:** Pandas, NumPy, Matplotlib, Tensorflow, PyTorch, OpenCV, Scikit-learn, Hugging Face

**Tools:** Git, LaTeX, Runpod, Jupyter

## AWARDS

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**STEM Awards:** ICML 2026 Mechanistic Interpretability Workshop Poster Presentation, ACL IJCNLP 2025 Student Research Workshop Poster Presentation, Stanford Math Tournament Distinguished Honorable Mention in Guts/Team Rounds, Berkeley Math Tournament General Round Honorable Mention, TKEthics Global AI Debates Finalist (<https://globalaidebates.com/featured-submissions>), AP Scholar, PSAT School Recognition Award