

The pleasure of decoding real-life problems is what first drew me to computer science, but it is the impact of what I build that continues to drive me forward. Growing up in a poor and remote village, where the healthcare system was limited and many families including my own, lacked access to timely diagnosis and treatment, I witnessed firsthand how inequities in medicine can leave lives vulnerable. Later, I was fortunate to move to places with far greater resources for education, work, and healthcare. This contrast not only gave me opportunities that many in my hometown never had, but also deepened my awareness of the profound inequalities that persist between different communities. It convinced me that advanced technologies such as AI must not only push the boundaries of science, but also be designed to serve humanity equitably.

Motivated by this belief, I took on the challenge of leading work at Vibrant America LLC, a biotech company, where I led the deployment of an e-commerce system that transformed the way providers and patients accessed laboratory services. From product conceptualization and user requirement analysis to final implementation, I managed the entire process. The system now serves more than 1,000 providers and 70,000 patients, automating workflows such as ordering, testing, tracking, and analytics. Yet I also observed a critical bottleneck: even after laboratory results were produced, providers spent substantial time reviewing reports and determining prescriptions. Driven to tackle this challenge, I began applying machine learning models, such as random forests, to explore correlations between lab results, dosage, and outcomes. This work reinforced my goal of developing AI-driven systems that enable faster and more accurate diagnostics, particularly for autoimmune and chronic diseases.

Before joining Vibrant, I gained experience in building and scaling technology products that improve efficiency and accessibility. At a startup founded by 58 Inc., I led the development of an app from 0 to 1 that integrated over 100 service categories—ranging from house cleaning to appliance repair. By reducing users' search time by 36% and enabling transparent reviews, the app grew by 200,000 users in two years and created thousands of new jobs in the service sector. Later, at Huoban LLC, I designed online collaboration tools that streamlined data collection and processing. These experiences taught me how thoughtfully designed platforms can bridge systemic gaps, a lesson I continue to carry into my healthcare-focused work.

To deepen my technical expertise, I pursued a Master's degree in Computer Science at Stevens Institute of Technology. Courses such as Machine Learning and Computer Vision revealed the vast potential of AI in life sciences. In my first machine learning class, I built a predictive model to distinguish malignant from benign tumors, an experience that confirmed how AI could meaningfully support medical decision-making. I was later invited to help design homework and serve as a teaching assistant for the machine learning course, an opportunity that solidified both my mastery of core algorithms and my ability to communicate complex ideas effectively.

My personal journey and professional experiences align closely with the mission of the Center for Human-Compatible AI. CHAI emphasizes ensuring that AI is not only technically advanced but also aligned with human values and beneficial to all. My path—from a resource-scarce village to developing healthcare technologies in well-resourced

environments—mirrors this principle. I aspire to build AI systems that do not only serve those with access but also extend safe, equitable, and impactful healthcare solutions to underserved populations.