

# Asifur Rahman

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## Education

**The University of Arizona**, College of Science, Tucson, AZ Expected Spring 2026  
Bachelor of Science in **Computer Science**, Minor in **Business Administration and Game Design and Development**  
**Honors:** 2x Dean's List, 1x Academic Year Distinction, 4x Global Wildcat Merit Scholarship Awardee  
**Leadership Experience:** Chairperson of Public Relations — **Arizona Delta Chi Fraternity**  
Mentor & Participant — **HackArizona 2025 Hackathon**

## Technical Skills

**Programming Languages:** Python, Java, JavaScript, HTML5, CSS, C, SQL, MIPS Assembly, Swift, R, LaTeX, Go  
**Tools, Libraries and Frameworks:** Git & GitHub, Docker, React.js, Next.js, Node.js, Express, MongoDB, Django, Flask, Bootstrap, TailwindCSS, AWS, Vercel, JUnit, Java Swing, tkinter, Linux, Plotly, Adobe CC, Tableau, Postman

## Work Experience

**Undergraduate Researcher** — Electrical and Computer Engineering, UArizona May 2025 – Present

- Engineered a mobile-compatible gaze estimation system for clinical perimetry under Dr. Eung-Joo Lee to enhance diagnostic accessibility.
- Trained and fine-tuned MobileViT models using PyTorch on the MPIIGaze dataset, applying knowledge distillation to improve inference speed and efficiency.
- Achieved a 25% gain in gaze prediction accuracy, enabling scalable, low-cost deployment in mobile healthcare diagnostics.

**IBM Science Shadow Program** — IBM, Tucson, AZ Summer 2025

- Selected for IBM's Science Shadow Program to explore enterprise infrastructure, mainframe systems, and emerging technologies through lab tours, Q&A sessions, and discussions on AI, cloud, and quantum computing.

## Projects

**JobTrackr – Full-Stack Job Application Dashboard**, [www.jobtrackr.site](http://www.jobtrackr.site) July 2025 – Present  
*Technologies:* Next.js, TypeScript, TailwindCSS, MongoDB, Clerk, Recharts, Leaflet, Vercel

- Designed and developed a full-stack dashboard to streamline job application tracking with drag-and-drop Kanban, analytics, and location mapping.
- Implemented secure authentication (Clerk), data persistence (MongoDB), and dynamic data visualization using Recharts and React Leaflet.
- Improved workflow for users managing over 50 job applications through real-time visualization and tracking.

**Arizona Delta Chi Alumni Portal – Full-Stack Database**, [www.iamkimball.com](http://www.iamkimball.com) May 2025 – July 2025  
*Technologies:* Django, PostgreSQL, TailwindCSS, Bootstrap, Django Crispy Forms

- Collaborated with a team of 3 developers to design and deploy a secure web portal that streamlined alumni engagement, data management, and outreach for 1500+ users nationwide.
- Developed features for record editing, search, and form validation with Django Crispy Forms and PostgreSQL models.
- Implemented bulk email functionality and built a responsive UI using TailwindCSS to enhance accessibility.

**RetroWeb Emulator – Interactive WebAssembly Virtual Machine**, [view on GitHub](#) June 2025 – July 2025  
*Technologies:* C, WebAssembly, React.js, Canvas API, Framer Motion, TailwindCSS, Emscripten

- Built a custom MIPS-inspired virtual machine in C, compiled to WebAssembly for fast in-browser execution.
- Developed a React-based frontend with interactive memory viewer, live instruction stepping, and pixel output rendering via Canvas.
- Improved accessibility of low-level computing concepts through animated visuals, tooltips, and educational UI elements.

**More projects at:** [www.iamasiff.com/portfolio](http://www.iamasiff.com/portfolio)

## Certifications

AWS Lambda Foundations (AWS); Google Project Management (Google); Eller Business Careers Institute Certificate (Eller College of Management); AI Foundations (IBM)