

# Aarush Assudani

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## EDUCATION

### Bachelor of Computer Engineering

Expected Graduation 2027

*Georgia Institute of Technology*

*Atlanta, GA*

- Relevant Coursework: Data Structures and Algorithms, Intro to Object Oriented Programming, Digital System Design

## PROFESSIONAL EXPERIENCE

### Create-X Launch Participant

2025 – Present

*Georgia Tech Create-X Launch Program*

*Atlanta, GA*

- Accepted into Georgia Tech's 12-week Create-X Launch accelerator, which provides mentorship, resources, and \$5,000 in funding to student ventures
- Co-founded **TerraSense**, an IoT-powered sensory prosthetic providing tactile feedback without invasive surgery, enhancing user mobility and quality of life.

### Undergraduate Research Assistant

2024 – Present

*Georgia Tech Research Institute - IoT in Healthcare*

*Atlanta, GA*

- Designed and modeled a 3D prosthetic using SolidWorks, iterating the design based on functional simulations and mentor feedback
- Researched methods for integrating IoT sensors into low-cost, adjustable 3D-printed prosthetics tailored for underserved communities
- Researched biomechanics and material science to optimize durability while maintaining affordability
- Evaluated scalable production and distribution models to reduce unit cost and improve accessibility

### Computer Science Intern

2023 – 2024

*Assets Edge*

*Cumming, GA*

- Engineered a responsive e-commerce platform using React.js and Node.js, handling product catalogs worth over \$64M
- Optimized MongoDB schema and indexing strategies to accelerate data retrieval by 40%
- Implemented CI/CD workflows with Git and automated tests (Jest, Selenium), ensuring zero critical regressions in production

### Medical Technology Intern

2023 – 2024

*North Atlanta Cardiology*

*Cumming, GA*

- Automated patient charting, prescription workflows, and scheduling within the eClinicalWorks EMR system, reducing administrative time by 25%
- Managed secure handling and archival of radiological images, maintaining HIPAA-compliant data integrity
- Provided technical support and troubleshooting, reducing system downtime and ensuring seamless clinical operations

## PROJECTS

### Re.Mind | *Android, Kotlin, Google ML Kit, TensorFlow Lite*

2024

- Developed an AI-powered memory support app for dementia patients, leveraging facial recognition and cognitive stimulation therapy
- Enhanced user engagement by providing personalized memory prompts, improving recall efficiency by 60%

### HistoryX | *Python, Google Gemini API, Imagen3, StreamLit*

2024

- Built an AI-driven platform that converts history lessons into immersive video essays, increasing educational engagement
- Automated content generation with Google APIs, achieving 70% faster production of educational content

## TECHNICAL SKILLS

**Languages:** Kotlin, Python, JavaScript, Java, C, C++, RISC-V, MIPS, SQL & NoSQL Databases

**Frameworks & Libraries:** Android SDK, Google ML Kit, TensorFlow Lite, Django, React.js, Node.js, Flutter

**Tools & Platforms:** Git, Jest, Selenium, SolidWorks, Android Studio, Google Cloud Platform

**Concepts & Technologies:** IoT & Embedded Systems, RESTful API Development, Machine Learning & AI Integration, Sensor Integration