

# Amrita Arun

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## EDUCATION

### University of Southern California

Computer Science, B.S., 3.6 GPA, Dean's List

Expected graduation: May 2027

Los Angeles, CA

- Relevant Coursework: Discrete Methods in Computer Science, Accelerated Python, Data Structures and Algorithms

## EXPERIENCE

### Fullstack Software Engineering and Growth Intern

Jan. 2025 – Present

*Supaclass*

- Conducted demos and organic outreach to K-12 teachers and university professors, creating a 20+ participant initial pilot
- Implemented LTI 1.3 integration to support automatic user authentication and contextual launches from LMS platforms (e.g., Moodle), removing the need for manual login and enabling dynamic personalization in the frontend.

### ShiftSC Incubator Initiative Lead

Jan. 2025 – Present

*ShiftSC*

- Singlehandedly developed a semester's worth of curriculum from scratch for 70+ members, leading groups to create passion projects in ethical technology and educating members on gaining traction and continuing their projects long-term.
- Planned and led the EthicAI Case Competition: Transforming Healthcare Responsibly event, where teams of 2-4 participants designed tech-related Minimum Viable Products through an ethical lens to address a hypothetical healthcare issue. Engaged 60+ participants from over 20 different majors and minors, fostering interdisciplinary collaboration and ethical problem-solving in technology.

### Co-Founder and Developer

Sep. 2024 – Dec. 2024

*USC LavaLab*

- Founded Due, a platform that allows teachers to bring AI into their classrooms to transform homework into a dynamic and engaging learning experience.
- Collaborated with co-developer, designer, and product manager to bring Due to life.
- Selected as 1 of 14 developers out of 350+ applicants in USC's premier startup incubator.

## PROJECTS

### Code Comparison Tool

Dec 2024

*Full Stack Web Developer*

- Developed a full-stack web application that detects unauthorized code usage by comparing students' code against class materials.
- Built frontend using Next.js, React, and TailwindCSS. Designed the backend with FastAPI, integrated Axios for RESTful API calls and handled multipart file uploads to process and analyze user submissions effectively.
- Implemented a custom algorithm in Python to highlight unmatched methods in student code for easier visual inspection.

### Due

Sep. 2024 - Dec 2024

*Web Developer*

- Developed a dynamic homework platform for middle school students that allows them to interact with their homework
- Allows teachers to gain crucial insights into student understanding through metrics like questions asked frequently, keywords, etc., to modify their lesson plans.
- Implemented PDF parsing to generate homework assignments through Langchain API and integration with OpenAI API endpoints (GPT-4o, Whisper, Embeddings) to create an interactive and engaging learning experience. Worked with Supabase for the backend.
- Working with 6+ educators and 40+ students across California.

### PandaSpeaks

Aug. 2021 - June 2022

*Mobile App Developer*

- Developed an Android app that helped children with non-verbal autism practice communication skills.
- Built a speaking feature that checked user speech, a feature for listening comprehension, and a conversation feature.
- Worked with Java/XML, Firebase, Google Speech-to-Text API

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, JavaScript, HTML/CSS, Swift, Typescript

**Frameworks:** React, Next.js, Nest.js, TailwindCSS

**Developer Tools:** Google Firebase, VS Code, PyCharm, IntelliJ, Android Studio, XCode

## AWARDS

### USC RealityShift - First Place Winner

Awarded first place in a university-wide extended reality (XR) pitch competition for designing a socially responsible XR solution that supports K-12 children with high-functioning autism through a mobile app and VR experience. The platform enables children to practice real-life social scenarios while giving speech therapists access to a connected web portal for tracking progress and reviewing behavioral insights.