

SRI UJJWAL REDDY BEEREDDY

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EDUCATION

Arizona State University (4.0 GPA)

Bachelor of Science in Computer Science (Software Engineering), Minor in Entrepreneurship

Tempe, AZ

Aug 2022 – May 2026

EXPERIENCE

Software Engineering Intern (Machine Learning)

Jul 2024 – Present

Geometric Media Lab

Tempe, AZ

- **Detail-oriented development** using *TypeScript* and *JavaScript* to engineer a hybrid ML pipeline, boosting **accuracy from 20% to 80%** on **10+ hours** of audio data processed via Librosa.
- **Optimized edge deployment** using *Node.js* and *Azure*, ensuring real-time performance in resource-constrained environments.
- **Enhanced model robustness** through iterative refinement and noise differentiation, improving prediction accuracy by **30%**.

Software Engineering Intern (Machine Learning)

Jan 2023 – Dec 2024

ASU Biodesign Institute

Tempe, AZ

- **Built a scalable data pipeline** using *Python* and *JavaScript*, reducing processing time from **4 hours to 10–30 minutes** per image.
- **Delivered actionable metrics** through ML-driven tools, transforming traditional workflows into high-impact research solutions.

Software Engineer

Aug 2024 – Present

Mesa Historical Museum (EPICS)

Tempe, AZ

- **Developed an immersive digital experience** using *React* and *Three.js*, increasing visitor engagement by **20%**.
- **Led a 7-member team** to implement scalable content management, optimizing digital visitor experience.

Software Engineer

Jan 2024 – Oct 2024

Software Developers Association (SoDA)

Tempe, AZ

- **Automated workflows** using *Selenium* and *JavaScript*, reducing test case upload time by **98%**.
- **Optimized membership systems** using *Flask* and *Next.js*, boosting operational efficiency by **50%**.

LEADERSHIP EXPERIENCE

- Led teams to win **4 hackathons** sponsored by *Honeywell*, *DAASH*, and *ASU*, guiding 15+ developers to competition success
- Rose from Intern to **Technical Director** at *SoDA*, managing 12 engineers to deliver technical workshops for 600+ club members

PROJECTS

Mine Alliance – Fullstack Sustainable Mining Website | *Next.js*, *Flask*, *SQLAlchemy*, *AWS*, *OpenAI GPT-4*, *TailwindCSS*

- **Reduced environmental assessment response times by 40%** using *Node.js* and *Azure* for impact assessments.
- Utilized *SQLAlchemy* and *Leaflet* for geospatial mapping, increasing stakeholder engagement.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML, CSS, Python, C#, SQL, Java

Frameworks & Libraries: Angular, Ionic, React, Flask, Node.js, .NET/C#

Tools & Environments: Microsoft Azure, AWS, Docker, Git, GitHub, Selenium

Machine Learning & AI: Neural Networks, Deep Learning, Unsupervised Learning