

# SREENIJA EARANKI

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## EDUCATION

**Indiana University, Bloomington**  
Masters of Science in Computer Science

Aug 2023–May 2025  
CGPA- 3.8/4.0

**Sreenidhi Institute of Science and Technology**  
BTech in Electrical and Electronics Engineering

July 2017–July 2021  
CGPA- 8.73/10

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, HTML5, CSS3, JavaScript, TypeScript, SQL, Swift, C++
- **Frameworks:** Flask, Django, React.js, Node.js, Express.js, Next.js, Bootstrap, TailwindCSS, Angular, Spring, Jest
- **Databases:** MySQL, SQL Server, PostgreSQL, MongoDB, Neo4j, Cassandra, Prisma, Firebase
- **Cloud:** AWS Lambda, Relational Database Service, DynamoDB, S3, IAM, CloudFormation, GCP
- **Tools:** Power BI, Excel, Git, Grafana, Jira, Docker, Kubernetes, REST APIs, Data Structures, Algorithms, Jenkins, CI/CD Pipelines, Agile, Web Development, Object-Oriented Programming (OOP), multi-threading, Operating systems

## EXPERIENCE

**Indiana University Bloomington**  
Data Science Research Assistant

April 2025 – Present  
Indiana, USA

- Implemented few-shot classification with GPT-4 and Hugging Face models to analyze the impact of AI in music through sentiment analysis and audience perception studies.

Associate Instructor

Jan 2024–Present

- Mentored and collaborated with over 200 students, enhancing their understanding of key advanced database concepts.

**Retensa LLC** – Software Engineer Intern

Sept 2024 – Dec 2024

SaaS, React.js, jQuery, CI/CD, Bitbucket, SQL, SQL Server Reporting Services (SSRS)

New York, USA

- Designed and developed the frontend of TalentPulse, a SaaS platform, using HTML, CSS, JavaScript (React.js, jQuery), and ColdFusion, improving usability for over 1,000 users. Performed UI testing using Playwright.
- Implemented CI/CD pipelines with Bitbucket, reducing deployment time and increasing weekly releases by 66%. Delivered 50+ actionable workforce reports using SQL and SSRS, cutting analysis time by 2hrs per report.

**MyEdMaster LLC** – Machine Learning Intern

June 2024 – Aug 2024

Python, Backend, Large-language Models (LLMs), Prompt Engineering, AWS DynamoDB

Indiana, USA

- Automated ingestion of LLM-generated SAT content by deploying an AWS Lambda backend via CloudFormation, integrating Amazon S3 and DynamoDB, which reduced manual processing by 85%.
- Fine-tuned OpenAI with prompt engineering to generate 2,500+ questions; migrated from RDS to DynamoDB and used IaC to scale 10x, cut costs by \$5K, and boosted engagement by 35% through personalized generative AI content.

**Accenture (Client: Bank of America)** — Software Engineer

July 2021 – June 2023

Python, SQL, NoSQL, Flask, Jenkins, CI/CD, React.js, DevOps

Hyderabad, India

- Built APIs that compute & surface intraday VaR attribution for 7M trades/day, cutting response latency by 40% and giving 120 analysts same-day limit visibility.
- Re-engineered multithreaded ETL that streams Cassandra trade data into an IBM DB2 warehouse, shrinking batch windows by 30% and slicing complex risk-query time by 40%.
- Delivered a React + TypeScript UI with WebSocket updates and reusable components, boosting analyst productivity by 25% and reducing ad-hoc report requests by 60%.
- Wrote a Python rules engine that flags market-risk breaches within 5 min, reclaiming 10 hrs/week of manual surveillance and catching 95% of violations pre-EOD.
- Instrumented pipelines with Prometheus metrics and Grafana dashboards, cutting mean-time-to-detect incidents by 60%. Maintained TDD pipelines in Jenkins CI/CD, lowering post-release defects by 40%.

**Startup (Aquart)** — Co-Founder

Jan 2019 – Mar 2020

React-native, XCode, jQuery, Android Studio, CI/CD, IoT

Hyderabad, India

- Founded AQUART, an IoT-based smart water conservation system; designed and launched a mobile app enabling remote monitoring, control, and billing. Secured seed funding, obtained a patent, and attracted early market interest.

## ACADEMIC PROJECTS

**SummarAIze: AI-Powered Meeting Companion** | *Streamlit, Python, GPT-4o, AssemblyAI, Whisper AI* [🔗](#)

- Built a full-stack ML app using AssemblyAI, Whisper AI, and Streamlit to transcribe live/recorded meetings from YouTube with over 90% accuracy, reducing manual note-taking by 70%.
- Integrated OpenAI sentiment analysis to classify meeting tone with 85%+ consistency, improving user insights and enhancing documentation quality for real-time conversations.