

# SATYA SAI SREENIJA EARANKI

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## EDUCATION

Indiana University, Bloomington	Aug 2023- May 2025
Masters of Science in Computer Science	CGPA- 3.8/4.0
Sreenidhi Institute of Science and Technology	July 2017- July 2021
BTech in Electrical and Electronics Engineering	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
- **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

<b>Retensa LLC</b> –Software Engineering Intern	Sept 2024 – Dec 2024
SaaS, React.js, jQuery, CI/CD, Bitbucket, SQL, SQL Server Reporting Services (SSRS)	New York, USA
<ul style="list-style-type: none"><li>• Designed and developed the frontend of TalentPulse, a <b>SaaS</b> platform, using <b>HTML</b>, <b>CSS</b>, <b>JavaScript(React.js, jQuery)</b>, and <b>ColdFusion</b>, improving usability for over 1,000 users. Performed UI testing using <b>Playwright</b>.</li><li>• Implemented <b>CI/CD pipelines</b> with <b>Bitbucket</b> and GitHub Actions, reducing deployment time and increasing weekly releases by 66%.</li><li>• Delivered 50+ actionable workforce reports using <b>SQL</b> and <b>SSRS</b>, cutting analysis time by 2 hours per report.</li></ul>	
<b>MyEdMaster LLC</b> –Machine Learning Intern	May 2024 – Aug 2024
Python, Backend, Large-language Models (LLMs), Prompt Engineering, AWS DynamoDB	Indiana, USA
<ul style="list-style-type: none"><li>• Implemented an <b>AWS Lambda-driven</b> backend workflow, deployed using <b>CloudFormation</b>, to automatically parse <b>LLM-generated</b> JSON files from <b>Amazon S3</b> reducing manual processing time by 85%.</li><li>• Fine-tuned the <b>OpenAI</b> API to generate over 2,500 SAT questions, using <b>prompt engineering</b> and led the migration from <b>Amazon RDS</b> to <b>DynamoDB</b>, improving query response times by 50%, reduced costs by \$5,000, and scaling the platform to handle 10x more data, reducing deployment times by 80% with automated <b>IaC</b>.</li><li>• Led the development of the questions' platform authentication <b>microservice</b> using <b>OAuth2/OpenID Connect</b> and <b>KeyCloak</b>, centralizing security protocols which reduced authentication response times by 30%.</li></ul>	
<b>Accenture (Client: Bank of America)</b> — Software Engineer	July 2021 – Aug 2023
Python, SQL, NoSQL, Flask, Jenkins, Kafka, CI/CD, React.js, DevOps	Hyderabad, India
<ul style="list-style-type: none"><li>• Automated <b>ETL</b> process for Market Risk Warehouse using <b>Python</b> and <b>Ansible</b>, reducing data loading time by 30%, eliminating 10+ weekly manual hours, increasing data accessibility to downstream applications.</li><li>• Configured <b>IBM DB2 Warehouse</b> and implemented <b>data warehousing solutions</b> on <b>IBM Sailfish</b> retrieving data from <b>NoSQL databases(Cassandra)</b>, enhancing system performance and data scalability by 80%, and resulting in a 40% reduction in query execution time.</li><li>• Used <b>Power Automate</b> and <b>SSIS</b> for ETL workflows into the Data Warehouse. Developed a <b>Power Apps</b> training management application, increasing data transparency by 70%.</li><li>• Established data pipelines using <b>Windows-based agents</b> to build and deploy SSIS packages to <b>On-prem</b> SQL server.</li><li>• Applied modern <b>DevOps</b> practices by implementing <b>CI/CD pipelines</b> aligned with <b>Agile methodologies</b>, automating the deployment of market risk reporting and monitoring tools using <b>Jenkins</b>.</li><li>• Led <b>software validation</b> efforts for market risk systems by expanding <b>automation testing</b>, implemented <b>defect triage</b>, boosting code coverage through <b>test-driven development</b> and reducing manual regression time by 75%.</li></ul>	

## ACADEMIC PROJECTS

<b>SummarAIze: AI-Powered Meeting Companion</b>   <i>Streamlit, Python, GPT-4o, AssemblyAI, Whisper AI</i> 
<ul style="list-style-type: none"><li>• Developed a <b>full-stack ML</b> application that transcribed live and recorded meetings with 90%+ accuracy using <b>AssemblyAI</b> and <b>Whisper AI</b>, enabling real-time audio processing from YouTube links.</li><li>• Integrated a <b>sentiment analysis</b> pipeline using <b>OpenAI APIs</b> to classify meeting tone, enhancing emotional insight for users with 85%+ consistency across varied input.</li><li>• Delivered an intuitive web dashboard using <b>Streamlit</b>, boosting meeting documentation efficiency and reducing manual note-taking by 70%.</li></ul>