Shivaganesh Nagamandla

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EDUCATION

University of Central Florida — Orlando, FL
Bachelor of Science - Computer Science (Dean's List x2, Bright Futures Scholar) — *April 2026*

TECHNICAL SKILLS

Certifications: Microsoft Office, Microsoft Excel, Operating Systems, AI Associate
Programming Languages: Python, Java, JavaScript (ES6+), SQL, C/C++, HTML5, CSS3
Frameworks: React.js, Next.js, Vue.js, Node.js, Express.js, NumPy, Scikit-learn, Qiskit, Pandas
Developer Tools: Git/Github/GitLab, Postman, Jira, Cursor, Visual Studio, PyCharm, CLion, Eclipse

EXPERIENCE

Hexaider Technologies — Maitland, FL
Software Engineer Intern — *August 2024 – December 2024*

- Developed Spring Boot booking APIs for the flight reservation microservice, contributing to a **35%** latency reduction
- Built Kafka consumer for the seat inventory service to process real-time reservation updates, streaming over **100K+** daily events across **5+** microservices
- Optimized Dockerfiles, reducing image size by **60%** and AWS EC2 deployment time to **15** minutes
- Collaborated in cross-functional code reviews to enforce design standards and improve deployment reliability

Data Engineering Intern — *May 2024 – August 2024*

- Optimized Oracle SQL transformation scripts by **27%**, automating data extraction pipelines from PeopleSoft HCM
- Developed unit tests for SQL transformations using parameterized mock datasets, increasing test coverage by **20%**
- Automated delivery of **15+** HR data exports using Python, streamlining Workday HCM migration (Agile)

Computer Science Club — Sanford, FL
President — *September 2022 – April 2023*

- Led development of the Crooms TechFest mobile app, enabling **500+** attendees to access real-time event info and company profiles for career fair exhibitors
- Revamped the collaborative coding initiative, increased active member participation by **58%** over the previous year.

PROJECTS

Retriv.ai (In Progress) | *Vue.js, Firebase, Vuex, DeepSeek AI*

- Co-developing an AI-powered study platform combating student procrastination through smart scheduling and retention techniques
- Engineered custom prompt engineering pipeline for DeepSeek AI API, achieving **87%** relevance score in generating study materials from uploaded content
- Implemented WebSpeech API for speech-to-text functionality with **94%** accuracy rate across **8** languages

LyricLingo | *React, Node.js, MongoDB, Express, Redis, JavaScript*

- Designed RESTful API architecture with JWT-Auth and service layer separation, integrating Spotify, Genius, and DeepL to deliver real-time lyric translations across **9+** languages with **95%** accuracy
- Engineered language auto-detection and lyric deduplication using Map/Set structures, reducing API costs by **40%**
- Built a robust NLP pipeline with Hugging Face RoBERTa for sentiment analysis (**82%** accuracy)
- Implemented Redis caching for flashcards and sentiment analysis, reducing load times **3+** seconds to under **200ms**
- Deployed to https://lyriclingo.vercel.app

Slumber | *React, Next.js, TypeScript, Tailwind CSS*

- Developed a sleep optimization tool to help users identify optimal bedtime and wake-up times
- Built React components with TypeScript and custom hooks for efficient time calculations and persistent user preferences
- Created procedurally generated animations using HTML Canvas, reducing rendering overhead by **30%**
- Deployed to https://slumber-nine.vercel.app