# YATHEESH NAGELLA

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## Education

**University of Central Oklahoma**                                               **2023 − 2025**
*Masters in Computer Science*                                                    *CGPA - 3.78*

## Skill Set

**Programming Languages**: JavaScript, TypeScript, Python, Java, PHP, Dart, C++, Go, Bash, YAML

**Authentication**: OAuth 2.0, AWS Cognito, Kerberos

**Web & Mobile Technologies**: React.js, Next.js, Laravel, Angular, HTML, CSS, .NET, Flutter

**Frameworks & Libraries**: Spring Boot, Node.js, Express.js, Vercel AI SDK, OpenAI API

**Databases**: PostgreSQL, MongoDB, DataStax Astra DB, SQL, NoSQL, Vector Databases

**DevOps & Tools**: Git, GitHub Actions, Docker, Jenkins, Kubernetes, Terraform, JIRA, AGILE, CI/CD pipelines

**Cloud Platforms**: AWS, Microsoft Azure, Google Cloud Platform, Vercel, Firebase, Linode

**Soft Skills**: Problem Solving, Critical Thinking, Communication, SDLC Awareness, Team Collaboration, Professionalism

## Experience

**Techceptionist**                                                               **June 2024 − Present**
*LX Studio*                                                                      *Oklahoma City, OK*

- Delivered exceptional customer support by greeting visitors, identifying their needs, and assisting with classroom and technology requirements.
- Provided immediate on-site technical support for classroom technology, troubleshooting AV equipment, and resolving technical issues to ensure seamless operations.
- Implemented **Microsoft 365 applications** (Teams, SharePoint, Power BI) to enhance collaboration, automate workflows, and improve **team productivity**.
- Developed **Power Automate workflows** to streamline ticketing and issue resolution, reducing response time for IT support requests.
- Utilized **Azure DevOps** for tracking tasks, version control, and managing technology updates across classrooms and learning environments.
- Managed **cloud-based storage** and access controls in **SharePoint and OneDrive**, ensuring secure document handling and team collaboration.
- Designed and maintained data analytics dashboards in **Power BI**, providing insights into equipment usage, support request trends, and team efficiency metrics.
- Collaborated with department management to address customer service needs, collect user feedback, and generate actionable reports.
- Demonstrated excellent communication skills and attention to detail while adhering to intercultural sensitivity in a diverse university environment.

**DevOps Engineer**                                                              **Nov 2022 − Jun 2023**
*Swish.ai*                                                                       *Remote*

- **Kubernetes & Multi-Cloud Infrastructure**: Led the deployment and lifecycle management of GKE (Google Kubernetes Engine) clusters, optimizing workloads for performance and cost.
- Integrated Istio service mesh to enable secure communication between microservices, traffic management, and observability.
- Ensured resilience, scalability, and high availability of distributed systems across multi-cloud environments.
- **API Integration & Management**: Integrated internal and third-party RESTful APIs into deployment workflows and monitoring systems.
- Built and deployed Angular-based components integrated into enterprise REST APIs with OAuth authentication.
- Managed API security and authentication policies in coordination with cloud service configurations.
- **IAM & Security Practices**: Configured and managed IAM roles and permissions for fine-grained access control across GCP services.
- Enforced least privilege access policies and conducted regular permission audits for compliance.

- Supported secure secrets management and Kubernetes access control using service accounts and RBAC.

**Associate Software Engineer** Aug 2021 – Sep 2022
*Truist* *Remote*
- Designed and deployed AWS infrastructure using Terraform for scalability and cost optimization.
- Managed Amazon RDS instances to ensure high availability and durability of mission-critical data workloads.
- Orchestrated containerized applications using Docker and Amazon ECS for efficient deployment and environment consistency.
- Developed and maintained GraphQL and RESTful APIs to enable seamless data integration across services.
- Optimized real-time data pipelines using Apache Kafka and Flink to support high-throughput, event-driven architecture.

- Integrated Apache Airflow for workflow orchestration, automating data engineering tasks and improving operational efficiency.
- Implemented CI/CD pipelines using Jenkins and GitHub Actions for automated testing, deployment, and monitoring.
- Conducted regular infrastructure audits and improved system security and compliance based on best practices.

## Personal Projects

**F1-GPT - AI-Powered Formula 1 Chatbot — Next.js 14, TypeScript, OpenAI, DataStax Astra DB** *2025*
- **Live Demo**: https://f1-gpt-eta.vercel.app/ — **Source Code**: GitHub
- Built a production-ready AI chatbot using **Next.js 14, TypeScript, and OpenAI GPT-3.5-turbo** with real-time streaming responses and semantic search capabilities.
- Integrated **DataStax Astra DB vector database** for intelligent F1 knowledge retrieval using OpenAI embeddings and LangChain for document processing.
- Designed responsive UI with **glassmorphism effects and F1-themed styling**, achieving **110KB First Load JS** for optimal performance.
- Deployed on **Vercel with CI/CD automation**, implementing proper environment configuration, error handling, and production-ready architecture.
- Utilized **Vercel AI SDK** for streaming chat interface and integrated vector search with semantic similarity matching for contextual responses.

**Cruddur - Micro-Blogging Platform — Flutter, AWS, CloudFormation** *2023*
- **Source Code**: GitHub
- Developed a **micro-blogging platform supporting create, read, update, and delete (CRUD) operations,** with scalable architecture for multiple concurrent users.
- Deployed the platform on AWS, leveraging **CloudFormation** to automate infrastructure management, reducing manual setup time and ensuring efficient resource provisioning.
- Utilized AWS Lambda to process and upload user avatars to an S3 bucket, reducing server-side processing costs
- Built a responsive front-end with HTML, CSS, and JavaScript. Implemented user authentication via **AWS Cognito**, enabling secure access for users with Federated Identities.

## Academic Achievements

**Secure Data Encryption for ATM Transactions || Research Paper** Sept 09, 2022
- **Link**: Publication
- Researched and developed improvements to ATM transaction security using **Python, Hash algorithms, and RSA encryption**, analyzing benefits of various Hash calculation methods.
- Implemented **RSA encryption/decryption** and **SHA1** hashing algorithms to enhance financial transaction security frameworks.

## Certifications

**Amazon Web Services: Certified Solutions Architect – Associate** Feb 25, 2023
*Amazon*

**University of Michigan: Web Application Technologies and Django** March 30, 2022
*Coursera*