Yatheesh Nagella

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Professional Summary

Full Stack Software Engineer with 4+ years specializing in financial services technology and AI-powered applications. Expert in building scalable web applications for banking, fintech, and insurance sectors using React, Next.js, Node.js, and modern cloud infrastructure. Proven track record developing customer-facing financial platforms, CRM systems for banking operations, and AI-integrated solutions. Strong experience with financial data processing, transaction systems, third-party API integrations (Plaid, payment gateways), and regulatory compliance. AWS Certified Solutions Architect with expertise in distributed systems, microservices architecture, and production deployments serving millions of users.

Technical Skills

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML/CSS, Bash
Frontend: React.js 18, Next.js 14, Angular, Redux, React Query, Tailwind CSS, Figma-to-Code, Component Design Systems
Backend: Node.js, Express.js, RESTful APIs, GraphQL, Microservices, Spring Boot, API Gateway
Databases: PostgreSQL, MongoDB, MySQL, Redis, Vector Databases, Financial Data Modeling, Transaction Processing
Financial Technology: Plaid API, Payment Processing, Transaction Management, Banking Systems, CRM Integration
AI/ML: OpenAI API, AWS Bedrock, LangChain, Vector Databases, RAG Architecture, Embeddings, Vercel AI SDK
Cloud & DevOps: AWS (EC2, Lambda, RDS, S3, CloudFront, ECS), Docker, Kubernetes, Terraform, CI/CD
Distributed Systems: Microservices, Event-Driven Design, Apache Kafka, Apache Flink, Service Mesh (Istio)

Professional Experience

Founder & Full Stack Developer Jun 2024 – Present
OneLibro (Financial SaaS Platform) *Remote*

- Architected and developed comprehensive financial management SaaS platform using React 18, TypeScript, Node.js, Express.js, and PostgreSQL serving users with real-time banking data integration
- Integrated Plaid API for secure bank account connections enabling real-time transaction syncing, balance tracking, and automated categorization across 12,000+ financial institutions
- Built transaction processing engine handling thousands of financial transactions with proper categorization, duplicate detection, and reconciliation logic
- Designed comprehensive financial data model in PostgreSQL with normalized schemas for accounts, transactions, budgets, categories, and financial goals
- Implemented OAuth 2.0 flows for Plaid Link integration with secure credential storage and token management following PCI DSS guidelines
- Built scalable RESTful API with JWT authentication, role-based access control (RBAC), and comprehensive error handling
- Developed responsive React application with Figma-to-code workflow, translating design mockups into pixel-perfect, accessible components
- Built interactive financial dashboards with Chart.js visualizations for spending analysis, budget tracking, and account balances
- Deployed production application on AWS (EC2, RDS, S3, CloudFront) with auto-scaling and load balancing achieving 99.9% uptime
- Built CI/CD pipeline with GitHub Actions for automated testing, building, and deployment with zero-downtime releases
- Developed comprehensive testing suite with Jest, React Testing Library, and Playwright achieving 85%+ code coverage
- Live Platform: finance.yatheeshnagella.com | Docs: yatheesh-nagella.github.io/OneLibro-DOCS

Technical Web Developer Aug 2024 – Present
LX Studio *Oklahoma City, OK*

- Developed responsive web pages and landing pages for educational programs using HTML, CSS, JavaScript, and React components
- Built student engagement portal enabling program registration, event management, and content delivery for 500+ students

- Collaborated with marketing team to translate Figma designs into production-ready code, ensuring brand consistency and accessibility
- Built internal applications using JavaScript and React for managing classroom resources and student information
- Developed SharePoint web parts using TypeScript and Microsoft Graph API for document management and team collaboration
- Built Power Automate workflows integrating Microsoft 365 services (Teams, SharePoint, Outlook) reducing manual processes by 60%
- Created Power BI dashboards with custom DAX queries for analytics on program enrollment, student engagement, and content performance

Full Stack Software Engineer Nov 2022 – Jun 2023
Swish.ai *Remote*

- Developed AI-driven insights feature for business analytics platform using AWS Bedrock (Claude) for natural language querying of business data
- Built conversational interface in Angular allowing users to ask questions about their data in natural language and receive AI-generated insights and visualizations
- Implemented prompt engineering and context management for translating user queries into SQL and generating human-readable analysis
- Built responsive Angular components with TypeScript for enterprise analytics dashboard serving 10K+ users
- Translated Figma designs into production-ready components with consistent design system and reusable UI patterns
- Developed Node.js and Python microservices deployed on Google Kubernetes Engine (GKE) for distributed analytics processing
- Built RESTful APIs connecting frontend to AI services, databases, and third-party integrations
- Configured Istio service mesh for traffic management, load balancing, circuit breaking, and distributed tracing across microservices
- Built CI/CD pipelines using ArgoCD and GitHub Actions for automated testing and deployment of containerized applications
- Impact: Enabled non-technical users to gain insights from complex datasets through natural language AI interface, reducing time-to-insight by 70%

Full Stack Software Engineer Aug 2021 – Sep 2022
Truist *Remote*

- Was part of customer relationship management (CRM) platform for commercial banking division serving 200+ relationship managers and credit analysts
- Built loan and mortgage data management system enabling credit teams to access customer credit profiles, loan applications, mortgage details, and payment history
- Developed customer 360-degree view aggregating data from multiple banking systems including accounts, loans, mortgages, credit cards, and transaction history
- Built responsive React.js application with TypeScript serving as primary interface for relationship managers and credit teams
- Translated Figma designs from UX team into production-ready components with banking-compliant design system
- Implemented complex forms with multi-step workflows for loan applications, credit analysis, and customer onboarding using React Hook Form with validation
- Developed GraphQL and RESTful APIs using Node.js and Spring Boot for integrating multiple banking backend systems
- Built microservices handling customer data, loan processing, mortgage calculations, credit checks, and document storage
- Architected event-driven system using Apache Kafka for real-time loan status updates, credit alerts, and workflow notifications
- Implemented Apache Flink stream processing for real-time fraud detection, transaction monitoring, and risk calculations processing 100K+ events/second
- Designed AWS infrastructure using Terraform with EC2, RDS (PostgreSQL), S3, and ECS in multi-AZ configuration for high availability
- Implemented security controls following banking industry standards including PCI DSS compliance, data encryption at rest/transit, and audit logging
- Impact: Enabled relationship managers to serve customers 40% faster by providing unified access to customer financial data. System processed 50K+ loan inquiries monthly.

Featured Projects

F1-GPT - AI-Powered Formula 1 Chatbot | *Next.js 14, TypeScript, OpenAI, Vector DB* 2025

- Built production-ready AI chatbot using Next.js 14 App Router with Server Components and Server Actions for optimal performance
- Implemented Hybrid RAG (Retrieval-Augmented Generation) architecture combining Jolpica F1 API for live race data with DataStax Astra DB vector database for historical F1 knowledge
- Designed intelligent query routing system to classify user questions and distribute requests between real-time APIs and vector search based on query intent
- Integrated OpenAI GPT-3.5-turbo with streaming responses and custom embeddings (text-embedding-3-small) for semantic similarity search
- Used LangChain for document processing, chunking F1 Wikipedia data, and managing vector database ingestion pipeline
- Achieved 110KB First Load JS bundle through aggressive optimization, code splitting, and Server Components achieving Lighthouse score of 98
- Deployed on Vercel with edge functions globally distributed for low-latency responses (¡100ms TTFB)
- Live Demo: f1-gpt-eta.vercel.app | Source: GitHub

Cruddur - Micro-Blogging Platform | *Flutter, AWS Lambda, DynamoDB, S3, Cognito* 2023

- Developed cross-platform mobile application using Flutter with responsive design for iOS and Android
- Built serverless backend using AWS Lambda functions (Node.js) handling business logic for posts, comments, and user profiles
- Designed REST API using API Gateway integrated with Lambda for CRUD operations on posts and user data
- Implemented AWS Cognito authentication with federated identities for secure user access and social login integration
- Used DynamoDB for NoSQL data storage with optimized partition keys for scalable read/write operations
- Automated infrastructure deployment using AWS CloudFormation for infrastructure-as-code with parameterized stacks
- Source: GitHub

Education

University of Central Oklahoma Edmond, OK
Master of Science in Computer Science, GPA: 3.78/4.0 *Aug 2023 – May 2025*

- Relevant Coursework: Distributed Systems, Cloud Computing, Database Management Systems, Machine Learning

Vellore Institute of Technology Vellore, India
Bachelor of Technology in Computer Engineering *2019 – 2023*

Certifications

AWS Certified Solutions Architect – Associate Feb 2023
Expertise in designing distributed systems on AWS with focus on scalability and security
Web Application Technologies and Django | *University of Michigan via Coursera* Mar 2022

Key Achievements

Built and launched OneLibro financial SaaS platform with Plaid integration serving real users managing thousands of transactions

Developed banking CRM system at Truist processing 50K+ loan inquiries monthly for 200+ relationship managers

Implemented AI-powered analytics features using AWS Bedrock reducing time-to-insight by 70%

Architected distributed systems processing 100K+ transactions/second with Apache Kafka and Flink

Achieved 99.9% uptime across production applications through proper infrastructure design and monitoring