

# SRIKAR VUPPALA

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## PROFESSIONAL SUMMARY

Results-driven Software Engineer with an M.S. in Computer Science and **6+** years of experience delivering scalable web applications with **React, Angular, Node.js, Flask, and .NET**. I specialize in microservices, **Event Sourcing, and CQRS** architectures, and have built AI-driven document-processing pipelines leveraging **OpenAI LLMs**. Throughout my career, I have worked in Agile environments, incorporating **SAFe Lean** practices to enhance team collaboration and delivery efficiency. My work spans end-to-end cloud and DevOps on **AWS** and **Azure**, secure authentication with **OAuth 2.0**, and mentoring cross-functional teams to drive system improvements and ship high-impact features across diverse platforms.

## SKILLS

- Languages:** JavaScript, TypeScript, HTML5, CSS3, Python, C#, Java, SQL
- Frameworks & Runtimes:** React, Angular, Node.js, Express, Flask, .NET
- Architecture & Patterns:** Microservices, Event Sourcing, CQRS, RESTful APIs
- AI & NLP:** OpenAI GPT-4/4o APIs, Prompt Engineering, NLP, AI-driven Document Extraction & OCR
- Databases (Relational & NoSQL):** PostgreSQL, MySQL, DynamoDB, Redis, Prisma, Knex, Bookshelf.
- DevOps & Cloud:** AWS (ECR, EC2, S3, Lambda, CDK), Azure Pipelines, Docker, Kubernetes.
- Messaging & Monitoring:** Kafka, Redis Streams, Kibana, Grafana
- Security:** OAuth 2.0, Checkmarx, StackRox, WhiteSource, SonarQube
- Collaboration & Project Tools:** Git, Jira, Confluence, Azure Boards, Miro, Figma
- Testing:** Test-Driven Development (TDD), Vitest, Jest, Angular unit tests (Jasmine/Karma).

## WORK EXPERIENCE

**INFOSYS LIMITED | CLIENT: VERIZON | RICHARDSON, TX**

**AUG 2025 - PRESENT**

### **SOFTWARE ENGINEER**

- Contributing to Verizon's Support Team Portal, a customer retention platform that provides targeted offers and line evaluations to users.
- Developing **React-based web pages and Node.js backend services** (with additional Java integration) to support high-traffic customer workflows.
- Focused on React development and Jest-based Unit testing, ensuring reliability and reducing post-release defects.
- Collaborating with cross-functional teams to enhance user experience, optimize performance, and maintain secure, scalable service delivery.

**DBESTWORKZ LLC | AUSTIN, TEXAS**

**JAN 2025 - JUL 2025**

### **SOFTWARE ENGINEER**

- Raised document parsing accuracy from 75% to 90%** by developing Flask-based AI services that integrate OpenAI LLMs (NLP Validation through prompts) into RedIQ's software processing pipeline.
- Designed and launched "Marketplace," **an React (TSX - typescript with XML) + Node.js** - powered real-estate deal surfacing feature. Early metrics indicate a 30% increase in user engagement within the first quarter, with real-time user notifications driven by **AWS SNS**.
- Managed and optimized a suite of **30+ Node.js microservices** to ensure high availability, scalability, and seamless user experience across distributed systems.
- Built **AI Properties - an Angular + Flask proof-of-concept** that leverages OpenAI LLM APIs to demo a future market-analytics feature - reducing insight turnaround time for analysts by 70% and generating property analytics 5× faster than the previous workflow.

**SOFTWARE ENGINEER**

- Spearheaded precision improvements in structured **PDF-to-XLSX extraction** by ~25% across 250+ documents daily for Rent-roll Enhancements by developing a **microservice using Node.js**. Conducted extensive evaluation of multiple conversion tools to optimize extraction accuracy.
- Created and optimized **stored procedures in .NET** to perform high-volume CRUD operations, improving database performance and maintainability.
- Engineered and automated full AWS cloud, provisioned **S3** for durable object storage, managed container images in **ECR** and deployed them on **EC2-backed services**, centralized package management with **Code Artifact**, and built **event-driven micro-services coordinated through SQS** - cutting deployment lead time and infrastructure costs while delivering highly scalable, fault-tolerant workloads.
- Implemented **Azure DevOps pipelines and Docker files**, shrinking build-to-deploy time from 30 min to less than 10 min.
- Authored **15+ Functional Specification Documents**, aligning product, engineering, and QA teams.

**BERKADIA COMMERCIAL MORTGAGE LLC | HOUSTON, TEXAS**

JAN 2023 - JUL 2024

**SOFTWARE ENGINEER**

- Modernized a monolithic legacy stack to **React + Node.js** (PostgreSQL & MySQL), shrinking deployment lead time by 60% and improving page-load performance by 45%.
- Led RESTful API development in **Node.js** with **Test-Driven Development (TDD)**, achieving more than 85% unit-test coverage and cutting post-release defects by 30%.
- Re-architected the back end to **Domain-Driven Design (DDD)**, using PostgreSQL boosting fault tolerance and quadrupling throughput in load tests.
- Integrated enterprise-grade security tools (**WhiteSource, StackRox, Checkmarx, SonarQube**) into **CI/CD pipelines following DevSecOps** principles, eliminating critical vulnerabilities across 30+ repositories and achieving 100% audit compliance.

**BERKADIA SERVICES INDIA PVT LTD | HYDERABAD, INDIA**

JAN 2018 - JUL 2021

**SOFTWARE ENGINEER**

- Actively contributed to **requirement analysis, architecture planning, and POC development** for core servicing applications.
- Engineered **Angular single-page applications** that automated Excel-based workflows, cutting loan-processing time from **3 hours to just 15 minutes**.
- Modularized the **Angular app into a reusable NPM package**, reducing duplicate code by 35%.
- Managed database schemas and migrations with **Prisma, Bookshelf** and **Knex.js** for efficient data modeling in MySQL.
- Diagnosed and resolved production incidents with Kibana, Grafana, and live Kubernetes-pod debugging with high efficiency.

**ACADEMIC EDUCATION****University of Houston – Clear Lake***Master of Science in Computer Science (Data Science Specialization)*

2021 – 2022 / GPA: 3.86

- Member, UHCL Student Coding Hub

**Vardhaman College of Engineering***Bachelor of Science in Computer Science*

2014 – 2018 / GPA: 9.02

- Best Outgoing Student Award
- Member, Computer Engineers Technical Association

## **ACADEMIC PROJECTS**

### **Blockchain Web Client Consortium | Aug 2022 - Dec 2022**

Led the design and development of a blockchain-based application, creating frontend components, middleware, and backend APIs for blockchain interactions.

**Technologies:** Angular, Node.js, Golang.

### **Student Networking Application | Sep 2021 - Dec 2021**

Built the User Interactive Web platform performing tasks like developing UI components for web page design, developing APIs in spring boot for backend communication and interacting with SQL for data storage. My major focus was related to understanding requirements, designing databases, normalizing them, and providing referential integrity.

**Technologies:** Angular, Spring boot, MySQL.

## **ACHIEVEMENTS**

- **Certificate of Excellence** – Zero vulnerabilities maintained across multiple applications.
- **Hackathon Winner 2023** – Built a message correlation tool that reduced debugging time for DDD systems.
- **Outstanding Performer** – Recognized in 2019 & 2020 at Berkadia; recipient of multiple Hi-Fi awards.
- **Techfest 2016 Winner** – National coding competition, IIT Bombay.