

Bhaves Naidu Kulluru

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Education:

Manipal University:

Master of Business Administration (Executive-MBA)

Expected Graduation: **January 2027**

Saginaw Valley State University:

Master of Science (MS) - Computer Science & Information Systems

Graduation: **May 2025**

GITAM University:

Bachelor of Technology (B.tech) - Computer Science & Engineering

Graduation: **April 2022**

Certifications :

Oracle Generative AI Certified Professional (2026)

Work Experience:

HCL tech | Ford Motors Client, Ford Rotunda Center RTCR, Michigan, USA

July 17 2025 – present

Senior Software Engineer

- **End-to-End Software Development Lifecycle Ownership:**
 - Own complete SDLC from architecture and system design through development, testing, deployment, and documentation for Java-based microservices supporting Ford's FEDEBOM (Ford Engineering Design Environment BOM) system
 - Develop Spring Boot APIs from scratch: architect solutions, implement business logic, write comprehensive test cases (JUnit/Mockito), validate APIs with Hoppscotch, deploy via Tekton/OpenShift pipelines, and manage GCP Cloud Run jobs/services across DEV → QA → PROD environments
- **Google ADK & Ford LLM Assistants:**
 - Build intelligent assistants using Google ADK (Agent Development Kit) for automated documentation generation, code optimization, and BOM anomaly detection
 - Reduced manual documentation time by 60% through AI-powered automation
 - Partnered with Ford's analytics teams to integrate proprietary LLM for intelligent process automation
- **Multi-Database Architecture:**
 - Work across comprehensive database ecosystem: Neo4j (graph data), MongoDB (document storage), DB2 (enterprise data), and PostgreSQL (relational data)
 - Design and optimize queries and data models across different database paradigms for BOM system functionality
- **Neo4j Graph Database Migration:**
 - Led enterprise-scale migration from NAS storage to Neo4j Aura cloud with parallel batch processing via Google Cloud Run
 - Migrated 3.2M+ nodes and 16.4M+ relationships at 11,018 nodes/second throughput (completed in 16m 40s)
 - Designed and deployed Ford Graph Complexity DB API using Neo4j Aura with SSO authentication and role-based access control
- **Full-Stack Angular Development:**
 - Built complete Angular applications (Observation Framework UI, CMF Concern Operations UI) from scratch
 - Implemented MSAL authentication, multi-API integration using RxJS forkJoin, responsive PrimeNG components
 - Developed comprehensive E2E testing with Playwright and Karma, ensuring 100% test coverage for critical paths
- **Enterprise Systems Integration:**

- Integrated FEDEBOM with enterprise systems (WERS, Teamcenter, GPDS) ensuring seamless BOM data flow across engineering, sourcing, manufacturing, and cost management domains
- Implemented EBOM (Engineering Bill of Materials) features including cost management, tooling, supplier linkage, and part lifecycle tracking
- **DevOps & Quality Assurance:**
 - Maintain code quality: fix SonarQube code smells/vulnerabilities, resolve FOSSA license compliance issues
 - Implement 42Crunch API security automation for enhanced API security scanning
 - Developed CI/CD pipelines with Tekton/OpenShift and automated infrastructure provisioning with Terraform
- **Strategic Initiatives Leadership:**
 - Leading 3DX platform transition and adoption across engineering teams
 - Spearheading Java 21 upgrade path for Neo4j compatibility and performance improvements
 - Driving Angular 18 UI modernization and component library standardization
 - Architecting API consolidation strategy (2 APIs → 1 unified API)
 - Setting up PlaaS/PAC platform infrastructure for next-generation deployment
- **Agile Collaboration:**
 - Work with cross-functional teams (engineering, procurement, manufacturing) in Agile environment
 - Active participation in sprint planning, daily standups, code reviews, retrospectives, and technical design discussions

Cognitive Rizonance (RiskyTricks LLC), Michigan, USA

Technical Founder & CEO |

January 2025 – Present

- Founded AI-powered mobile application startup (DBA of RiskyTrick's LLC, formerly TooRizzky) building innovative social and mental health platforms
- **Rizzculator:** Launched AI social platform with roasting engine, gamification, Rizz Coins economy, and TikTok-style feed built with React Native, Firebase, and OpenAI API
- **Cognitive Rizz0nance:** Developing HIPAA-compliant mental health platform connecting patients with licensed professionals through AI-powered screening and personalized matching algorithms
- Manage complete product lifecycle: ideation, architecture, full-stack development (React Native, Node.js microservices, Firebase), deployment, user acquisition, and growth strategies

Child and Family Services of Saginaw, Saginaw, Michigan, USA

Volunteer IT Specialist

May 2025 – July 2025

Behaviourial Student Intern - IT Consultant

August 2024 – May 2025

- Provided technical support for **API integrations** and troubleshooting issues related to their **platform (Insynch)**.
- **Web Development, migration and API Integration:** Used WordPress to enhance, maintain and improve application performance. Developed web interfaces using **HTML5, CSS3** and integrated **RESTful APIs** with full **CRUD** operations, streamlining data exchanges and significantly improving usability. Conducted API testing with Postman and enhanced application performance using WordPress.
- Supported EMR systems, streamlining patient data management through Power BI dashboards.
- **Bug Fixes and Maintenance:** Reviewed tickets to identify issues, executing regular bug fixes and system maintenance to ensure continuous system stability and improved performance.
- **Supported EMR systems** and led **data visualization projects using Power BI**, collaborating with healthcare professionals to implement effective technical solutions for patient data management.
- **Conducted comprehensive testing** API testing with Postman.
- Pulled and analyzed reports within a healthcare system using Insynch, ensuring compliance with **EMR (Electronic Medical Records) standards, HIPAA (Health Insurance Portability and Accountability Act), and HL7 (Health Level Seven) regulations**.
- Collaborated with healthcare professionals to implement effective **technical solutions for patient data management**.
- **Developed An AI based Tool, Standalone Application Using Python and PyQt5 and Torch as well as GPT 2.0 integrated with it for specified Therapy Note generation, Saved 880k+ cost to company by this implementation !**

- Conducted research on **Moving Target Defense (MTD)** techniques as part of a **cybersecurity project** focused on **anomalybased intrusion detection and prevention systems (IDPS)**.
- Designed and deployed **sandboxed environments** for safe **simulation of real-world cyber-attacks and detection** validation.
- Integrated **Wireshark** for deep packet inspection, supporting **traffic analysis and attack pattern identification**.
- **Implemented honeypots** to attract and analyze malicious behavior, contributing to a dataset of real-time attack vectors.
- Utilized **behavioral-based monitoring** to detect abnormal user activity, focusing on parameters such as session length, access frequency, login time variance, and API misuse.
- Evaluated detection performance by tracking **false positive and false negative** rates, refining thresholds via machine learning algorithms.
- Produced detailed weekly reports on runtime monitoring insights and collaborated closely with faculty on project evolution and documentation.

Accenture, Bangalore, India
Associate Software Engineer

October 2022 – August 2023

- Delivered impactful technical solutions by developing tracking software and dynamic dashboards using Power BI, significantly improving data management and visualization.
- Designed and implemented Excel macros for complex tracking processes, optimizing workflows and enhancing productivity.
- Conducted SAP system assessments and collaborated with cross-functional teams to ensure seamless project delivery, meeting tight deadlines and quality standards.
- Troubleshoot and resolved technical issues related to API integrations and performance, ensuring smooth platform operations and user satisfaction.
- Actively participated in **Agile Development Methodology**, adhering to two-week sprint cycles and ceremonies such as Sprint Planning, Story Grooming, Backlog Refinement, Daily Standups, and Retrospectives.
- Involved in **Agile Development Methodology** following **2 weeks of sprint** and ceremonies like Sprint Planning, Story Grooming, Backlog Refinement, Daily standups, retrospective.
- Conducted **SAP S/4 HANA migration projects**, ensuring seamless data migration and integration while maintaining system performance and integrity.
- Used new **Java 8** capabilities, like stream API for bulk data operations on collections using both streams and parallel streams and lambda expressions for communication between the business layer and database.
- Designed and Developed Micro-services utilizing the **REST framework, Spring Boot, and a secure API with JWT**.
- Involved in the design and development of the legacy application's transformation into a Microservice.
- Developed Docker consoles and containers for controlling the life cycle of applications.
- Developed views and controllers using **Spring MVC** and **Spring Core**.

Avexa (Health Domain Startup Company) ,India
Software Developer

May 2022 – August 2022

- **Developed data analytics and visualization tools** using **Power BI, Power Automation, MySQL, Java, HTML, CSS, and JavaScript**.
- Utilized SQL scripts to extract business reports and presented them in visually appealing formats using Power BI.
- Develop and maintain distributed data processing pipelines using **Apache Spark, including data ingestion, processing, and storage**.
- Developed applications using SDK code change and using **Java, C sharp, .Net, JavaScript, XML, HTML** and **MongoDB**.
- **Design, develop, and test the code** for feasibility in JUnit.
- Implemented **REST APIs and SOAP** that are invoked to implement various functionalities required as per business requirements. □ Participated in requirement **reviews and analyzed Modification requests and Enhancement requests**.

Data Science Industrial Trainee

- Successfully completed an industrial program on applied data science, focusing on real-world implementation of ML models for domain-specific use cases.
- Developed and deployed **supervised machine learning models** for:
- Parkinson's Disease **detection** using biomedical data
- Academic performance **prediction** via **regression techniques**, Fake news detection using **NLP** and **classification** algorithms.
- Gained hands-on experience with data preprocessing, feature selection, and evaluation metrics including accuracy, precision, recall, and F1-score.
- Worked under industry mentorship to fine-tune models and present outcomes in line with enterprise expectations.

1stop.ai , India

June 2021 – September 2021

Machine Learning and Data Science Intern

- Completed a structured training and project-based internship covering end-to-end ML workflows, from problem definition to model deployment.
- Mastered core Python libraries including **pandas**, **NumPy**, **matplotlib**, **seaborn**, and **scikit-learn** for data analysis and modeling.
 - Applied data structures and algorithms in **model optimization** tasks, with emphasis on choosing the right technique for specific use cases.
- Demonstrated proficiency in implementing **classification**, **regression**, and **clustering models** with real-time datasets and visualizing results for decision-making.

Skills:

Languages: Java/J2EE (**Very Proficient**), C, C++, Python, Kotlin, JavaScript, HTML5, CSS3, XML, JSON, AJAX, Node.js, React, Next.js, Bootstrap, Spring Boot, Spring Framework, Solidity, Cypher, R

Frameworks: AngularJS, React, Svelte, Node.js, jQuery, TensorFlow, Keras, Plotly, MongoDB, SwiftUI

Cloud PlatformS: AWS (AWS Lambda, AWS CloudWatch, AWS EC2, AWS S3, AWS IAM), GCP

Containers: Docker, Kubernetes

Architecture and APIs: REST, RESTful API, SOAP, WebSocket

Database Management: Firebase, MySQL, Oracle, XAMPP, Neo4j, PostgreSQL, Redis

Design Tools: Visual Studio, Eclipse, STS, IntelliJ, UNITY Engine

Build Tools: Maven, Gradle , Yarn, npm, pipenv

Design Patterns and Principles: Microservices, MVC, Singleton

Version Control and CI/CD Tools: Git, GitHub, Jenkins

Testing Tools: Postman, JUnit, Mockito

Operating System: Windows, Linux, macOS, Android and Use of VM ware

Programming Tools and Unix/Linux: Unix/Linux command-line tools (awk, grep)

Business Tools: Microsoft Excel, Word, PowerPoint, Lucid Chart, Jira, Wireshark, SAP basis, Power BI **SDLC:** Agile, Waterfall, Scrum

- **Featured Projects** (<http://www.github.com/RiskyTrick>):

- **Ford LLM Assistants (Google ADK)**
Built intelligent assistants using Google ADK for automated documentation generation, code optimization, and BOM anomaly detection. Reduced manual documentation time by 60% through AI-powered automation.
Tech Stack: Google ADK, Ford LLM, Python, Java, Spring Boot

- **Neo4j Graph Database Migration**
Led enterprise-scale migration from NAS to Neo4j Aura cloud. Migrated 3.2M+ nodes and 16.4M+ relationships with parallel batch processing via GCP Cloud Run at 11,018 nodes/second.
Tech Stack: Neo4j, Neo4j Aura, GCP Cloud Run, Java, MongoDB, Spring Boot
- **Ford Angular Applications**
Built complete Angular applications (Observation Framework UI, CMF Concern Operations UI) with MSAL authentication, multi-API integration using RxJS forkJoin, and comprehensive E2E testing.
Tech Stack: Angular, TypeScript, PrimeNG, RxJS, MSAL, Playwright, Karma, Tekton
- **Spring Boot Microservices (End-to-End)**
Developed enterprise-grade microservices with complete ownership from architecture to production deployment. Deployed via Tekton/OpenShift pipelines with GCP Cloud Run management.
Tech Stack: Spring Boot, Java, Tekton, OpenShift, GCP Cloud Run, Docker, Kubernetes
- **Rizzculator**
AI-powered social platform combining authenticity with gamification. Features AI roasting, daily challenges, Rizz Coins economy, and TikTok-style feed.
Tech Stack: React Native, Firebase, OpenAI API, TypeScript, Node.js
- **Cognitive Rizz0nance**
HIPAA-compliant mental health platform connecting patients with licensed professionals through AI-powered screening and personalized recommendations.
Tech Stack: React Native, Node.js, AI/ML, HIPAA Compliance, Firebase
- **AI Therapy Note Generator**
Standalone application generating structured therapy notes from conversation transcripts. Saved \$880K+ in operational costs and reduced manual workload by 70%.
Tech Stack: Python, PyQt5, Torch, GPT-2, Natural Language Processing
- **Blockchain & Crypto Development**
Developed smart contracts and decentralized apps (DApps) using Solidity and Web3.js. Experimented with token creation, NFTs, and ICO mechanics.
Tech Stack: Solidity, Web3.js, IPFS, Ethereum
- **Full RPG Game (Unity)**
Created complete RPG game with custom shaders, physics, modular assets, and multiplayer capability. Used Blender for 3D design and animation.
Tech Stack: Unity, C#, Blender, Shader Graph
- Academic Projects (20+)
- Delivered 20+ academic projects including IoT-based smart water systems, facial recognition platforms, COVID-19 barrier systems, and predictive ML models spanning hardware integration, ML, and software design.
Tech Stack: IoT, Arduino, Python, C++, Machine Learning, Computer Vision

Declaration:

I Hereby Certify That All the Above Mentioned Information Is True and Valid to the Best of my Knowledge.

-Bhaves Naidu Kulluru