

Nishant Routray

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SKILLS

Languages & Databases: C/C++, Java, Python, JavaScript, TypeScript, HTML/CSS, SQL/PSQL, MongoDB
Frameworks: React, Redux, LangChain, Kafka, Spring Boot, Node.js, Express, Flask, Streamlit, GraphQL, REST
Tools & Platforms: AWS, Docker, Grafana, Postman, Swagger, Git, Bitbucket, Linux

EDUCATION

Master of Science: Computer Science <i>University of Florida, Gainesville</i>	August 2023 - May 2025 GPA: 3.8/4
Bachelor of Technology: Computer Science <i>Veer Surendra Sai University of Technology, India</i>	July 2016 - July 2020 GPA: 3.62/4

EXPERIENCE

Software Developer Intern (GenAI) <i>Motorola Solutions</i>	May 2024 - Aug 2024 <i>Chicago, Illinois</i>
<ul style="list-style-type: none">Developed GenAI chat assistant for Enterprise Core Tech team by utilizing AzureOpenAI's gpt-4o LLM to convert natural language queries into SQLEmployed prompt engineering and few-shot learning with RAG using FAISS index to achieve an accuracy of 97% for query translation to handle complex schema and joinsExecuted SQL queries on AWS Redshift and transformed results back to natural response using LLM within 3 secSucceeded on creating, COCO, a compliance bot to monitor and prevent privacy breaches within Google Chat	
Software Developer (Fullstack) <i>Credit Suisse AG</i>	August 2020 - July 2023 <i>Pune, India</i>
<ul style="list-style-type: none">Engineered vital microservices with Spring Boot and Kafka for AMER & G20 Regulatory Reporting to DTCC. Seamless transmission of 1M+ trades/day to regulators, rigorous UAT performance tests and PROD deploymentCrafted React-Spring Boot portal empowering users to track over 1M live trade status and SLA breachesLeveraged Ignite caches to turbocharge performance and load time by an impressive 40%Achieved \$100,000 Oracle DB cost reduction by deploying an archival component. Implemented data migration for older data to SybaseIQ, ensuring seamless partitioning and remarkable 100% database healthLed the development of a Node.js and React based event-driven web app reducing process monitoring time by 30%. Integrated Oracle and InfluxDB for Grafana dashboard to monitor the process status of 10+ serversImplemented a seamless process scheduling and control system with a robust UI and logging, reducing server dependencies and granting administrators full command of 10+ servers, resulting in a 25% decrease in downtime.	
Summer Research Intern <i>SWAN Lab, Indian Institute of Technology</i>	May 2019 - December 2019 <i>Kharagpur, India</i>
<ul style="list-style-type: none">Enhanced underwater wireless sensor network routing through innovative layer-wise hop transfer, yielding significant performance improvements of 50% across various metrics compared to existing research papersDemonstrated maximum packet delivery, minimal latency, and improved energy efficiency using Game Theory, supported by NS3 and C++ simulations, achieving remarkable advancements in performance	

PROJECTS

JARGO: Tech Jargon Translator [↗](#)

- Developed a RESTful **GenAI** app to simplify technical terms, saving **100 man-hrs/wk** for IT tickets resolver

Intelligent Data Processing and Redaction Pipeline for Public Safety Analysis [↗](#)

- Download and parse more than **1000** daily incidents related PDFs, extracting critical fields and storing in SQLite
- Sensitive data censorship using **spacy** for Named Entity Recognition (NER) by redacting **90%** of sensitive details
- Data Augmentation by leveraging **OpenMeteo's Historical Weather** and **Google Maps API** for data enrichment

Human-Elephant Conflict [↗](#)

- Implemented camera-based elephant detection system triggering bee sounds reducing intrusion by **70%**
- Achieved rapid response times by notifying the forest department via **Twilio** with live images and location details in under 1 minute, facilitating prompt intervention and wildlife protection

ACHIEVEMENTS AND CERTIFICATION

- University of Florida's Academic Achievement Award for outstanding undergraduate performance
- Branding Head of Global Coding Challenge 2022, Credit Suisse
- Oracle Certified Java EE6 Web Developer