Nishant Routray

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SKILLS

Languages & Databases: C/C++, Java, JavaScript, TypeScript, Python, HTML/CSS, SQL/PSQL, MongoDB, Linux
Frameworks: React, Redux, Spring Boot, Node.js, Kafka, AWS, Grafana, Docker, Express, GraphQL, REST, J2EE, Git

EDUCATION

Master of Science: Computer Science — August 2023 - June 2025
University of Florida, Gainesville — *GPA: 3.89/4*

Relevant Coursework: Analysis of Algorithms, Human-Computer Interaction, Data Engineering

Bachelor of Technology: Computer Science — July 2016 - July 2020
Veer Surendra Sai University of Technology, Burla — *GPA: 3.62/4*

EXPERIENCE

Fullstack Developer — August 2020 - July 2023
Credit Suisse AG — *Pune, India*

- 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 deployment
- Crafted **React-Spring Boot** portal empowering users to track over **1M** live trade status and SLA breaches
- Leveraged 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 health
- Successfully led the development of a **Node.js**, **Express**, and **React** based event-driven web app. Integrated Oracle and **InfluxDB** for **Grafana** dashboard to monitor the process status in multiple servers
- Implemented a seamless process scheduling and control system with a robust UI and logging, reducing server dependencies and granting administrators full command over all processes across all servers

Summer Research Intern — May 2019 - December 2019
SWAN Lab, Indian Institute of Technology — *Kharagpur, India*

- Enhanced underwater wireless sensor network routing through innovative layer-wise hop transfer, yielding significant performance improvements of 40-50% across various metrics compared to existing research papers
- Demonstrated maximum packet delivery, minimal latency, and improved energy efficiency using Game Theory, supported by NS3 and **C++** simulations, achieving remarkable advancements in performance

Digital Marketing Summer Intern — May 2018 - June 2018
Editsoft Digital — *New Delhi, India*

- Achieved page 1 in search engine ranking on Google and Bing through effective utilization of SEO, Social Media Marketing, and Pay Per Click strategies.

RELEVANT PROJECTS

Smart Traffic Management | Deep Learning, OpenCV, Image Processing

- Transformed traffic control using TensorFlow Count API, alleviating congestion at road intersections by intelligently managing signals. Prioritized high-congestion routes by adjusting signal timings
- Implemented accident detection with a 15-second alert via Twilio, enhancing incident response time by 70%

Human-Elephant Conflict |

- Implemented camera-based elephant detection system triggering bee sounds near vulnerable areas
- Achieved rapid response times by notifying the forest department with live images and location details in under 1 minute, facilitating prompt intervention and wildlife protection

ACHIEVEMENTS AND CERTIFICATION

- Achieved proficiency in problem-solving by successfully solving over 200 LeetCode problems 🔗
- Recipient of the University of Florida's Academic Achievement Award for outstanding undergraduate performance
- As Branding Head of the Global Coding Challenge 2022 at Credit Suisse, increased participation by 20%.
- Secured 3rd Prize at UtkalHacks 1.0, 2019, held at Ravenshaw University
- Earned a spot as a finalist in the VSSUT Innobuzz Hackathon, 2019
- Oracle Certified Java EE6 Web Developer