Rutvik Yamkanmardi

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TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, Go, JavaScript, SQL
Backend & Frameworks:Node.js, Express.js, Django, RESTful APIs
Databases: MySQL, PostgreSQL, Cassandra, MongoDB
Cloud & DevOps: AWS, Google Cloud Platform (GCP), AWS Lambda, Docker, Kubernetes, Github Actions, CI/CD Pipelines, Automation, Webhooks
AI & Data Processing: Deep Learning, Neural Networks,TensorFlow, PyTorch, CUDA, OpenCV, Computer Vision, Pandas, NumPy
Robotics & Embedded Systems: ROS2, Robotics Middleware, Nvidia Jetson

EXPERIENCE

SAP UCC   March 2024 - Present
Backend Engineer (Team Lead)

- Led a team of 3 developers, coordinating deliverables and resolving technical conflicts to ensure timely completion.
- Implemented MongoDB for efficient data storage, speeding up data retrieval by 1.5 times
- Redesigned website backend architecture using Node.js and Express.js, leading to a 10x speedup in load times.

Chico State Enterprises   June 2024 - Present
Research Scientist (Computer Vision)

- Developed 3D point cloud generation techniques from 2D video data using MATLAB and Python, employing SURF feature extraction.
- Achieved depth estimation performance comparable to Lidar systems by utilizing a single GoPro camera and custom MATLAB scripts
- Applied OpenCV for advanced computer vision tasks, enhancing object detection accuracy

IndiaMart   May 2022 - June 2023
Software Engineer

- Resolved a longstanding bug in legacy PHP and Golang codebases by optimizing data structures, restoring access for customers with extensive product catalogs
- Developed and maintained high-traffic APIs handling millions of daily requests, ensuring system scalability and reliability.
- Led database and server migrations, transitioning to Cassandra and RabbitMQ to reduce latency and improve system responsiveness.

EDUCATION

California State University - Chico   June 2025
Master of Science in Computer Science   *GPA: 4.0/4.0*

Indian Institute of Information Technology - Dharwad   May 2022
Bachelor of Technology in Computer Science and Engineering   *GPA: 3.52/4.0*

PROJECTS

Crosswalk Pedestrian Safety System | *OpenCV, Jeston Orin, C++, Yolo Object Detection*   May 2024

- Built a CUDA-accelerated YOLO-based pedestrian detection system on Jetson Orin with 90%+ accuracy.

Multiplayer Chess Website | *Django, JS, GCP, Postgres*   October 2024

- Developed a real-time, Dockerized Django chess app with WebSocket support and GCP-scaled backend

Voice-Activated Auto Navigating Robot | *ROS2, VOSK, GPT-3.5, Turtlebot, Python, Yolo*   December 2024

- Designed a ROS2 Turtlebot with VOSK wake-word detection, GPT-3.5 command parsing, and YOLO-based obstacle avoidance