Chandana Sree Krishna

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Technical Skills

Languages: C, C++, Java, Python, SQL, Kotlin, JavaScript, TypeScript
Frontend: HTML5, CSS3, React, Angular, Redux, Vite
Backend: Node.js, Express.js, GraphQL, Spring Boot, Kafka, Apache Spark
Databases: MySQL, SQL Server, Oracle, PostgreSQL, MongoDB, Snowflake, Firebase
Cloud: AWS (EC2), Azure, GCP
DevOps/CI/CD: GitLab, Jenkins, GitHub Actions
Testing: JUnit

Education

Master of Science in Computer Science ***Sep 2023 – Sep 2024***
Lakehead University, Ontario, Canada

BTech Computer Science Engineering ***Aug 2017 – Jul 2021***
IIT Palakkad, Kerala, India

Experience

Lead Developer - Data Engineering at Vosyn ***Jul 2025 – Present***

- Led design and deployment of a GPU-accelerated speech-to-text pipeline (transcription, speaker diarization, segmentation) using ***Faster-Whisper***, ***NeMo***, and ***Google Cloud*** (Vertex AI, GCS).
- Architected and maintained scalable inference infrastructure, reducing transcription latency and enabling concurrent audio job processing in a containerized cloud environment.
- Spearheaded sprint planning and sprint execution for a 16-member team; delegated and reviewed contributions across ML model evaluation, audio preprocessing, and deployment automation.
- Integrated diarization with post-processing logic for turn-level alignment, storing outputs in structured formats for downstream applications.

Data Engineer at Vosyn ***Mar 2025 – Jul 2025***

- Deployed transcription and segmentation models to Vertex AI with GPU acceleration, achieving a 40% latency reduction over ***Cloud Run***.
- Containerized ***FastAPI*** microservices (Whisper, NeMo, T5) and optimized ***Docker*** images to meet Vertex AI runtime constraints.
- Benchmarked multilingual ***NLP models*** across 5 languages using WER/BLEU and documented performance gaps and linguistic edge cases.
- Reduced diarization error by over 10% via overlap detection and refinement using diarization scores and energy thresholds.

Senior Software Engineer at LTIMindtree ***Oct 2021 – Jul 2023***

- Engineered and deployed masking techniques to secure sensitive data in ***MySQL***, ***MSSQL***, ***Oracle***, and ***PostgreSQL*** databases, ensuring a 25% decrease in unauthorized access attempts and maintaining compliance with data privacy regulations.
- Developed ***Angular***-based UI and ***Java***-based backend in PrivateEye (sensitive data discovery and classification tool). Incorporated ***ML models*** for document classification, improving document classification accuracy by 25%.
- Engineered ***RESTful APIs*** with comprehensive documentation using ***Swagger***, facilitating seamless integration and third-party collaboration.
- Collaborated in ROPA review workshops using ***OneTrust***, contributing to a significant 90% decrease in ROPA count and enhancing compliance review efficiency.
- Implemented automated CI/CD pipelines using ***Jenkins*** and ***Maven***, enhancing deployment efficiency and code quality.

Graduate Engineer Trainee at LTIMindtree ***Jul 2021 – Oct 2021***

- Completed 120 hours of ***GDPR*** and ***CCPA*** training, enhancing understanding of data privacy regulations and facilitating compliance efforts.
- Attended 3-month training sessions on ***Java, Spring Boot, and Angular***, acquiring foundational skills for software development projects.

Internship Trainee at UST Global ***Jun 2020 – Jul 2020***

- Improved the speaker recognition model for authentication by adapting the ***You-Only-Speak-Once*** model and integrating the ***Resemblyzer (Python)***, resulting in a notable threshold improvement from 0.82 to 0.95.
- Created a ***Streamlit***-based frontend to facilitate speaker management functionalities, resulting in a 30% reduction in registration time.

Intern at RBCCPS, IISC Bangalore ***May 2019 – Jul 2019***

- Successfully adapted and fine-tuned the ***Yolo v3*** model for object detection for autonomous vehicles on Indian roads, resulting in a substantial increase in detection accuracy from 30% to 88% on a modified IDD dataset.

Projects

Food Delivery Web App - Tomato GitHub

- Developed a full-stack food delivery web app using the ***MERN*** stack and integrated the ***Stripe payment*** gateway, enabling secure online payments and order processing.
- Implemented user authentication and shopping cart features with ***React.js*** and ***JWT***, allowing users to create accounts, log in, and place orders with real-time cart updates.
- Built a dynamic admin panel to manage menus, orders, and track order statuses, improving operational efficiency for restaurant management.

Blood Bank App - Vitaly GitHub

- Implemented profile management features in ***Kotlin***, utilizing ***Firebase Authentication*** and ***Realtime Database*** for secure user information updates and profile picture uploads.
- Integrated ***Glide*** for efficient image loading and caching, optimizing the performance of profile picture handling and enhancing the user experience.
- Employed version control systems such as ***Git*** to manage source code, resulting in a 30% reduction in development time and facilitating seamless collaboration efforts.

Multi-Model Chat Recommendation System - IOTChat GitHub

- Spearheaded the development and implementation of a multi-model chat recommendation system for IoT, integrating ***ChatGPT-4*** and ***Gemini Pro AI models*** to recommend tutorial videos based on images of IoT devices, resulting in a 25% increase in user engagement and satisfaction.
- Managed seamless integration of external services, including ***MongoDB*** for data storage, ***Twilio*** for SMS notifications, and ***Google Cloud*** for ***Gemini Pro***, and deployed the system on ***Hugging Face***, resulting in a 30% increase in system scalability and efficiency.

Protein Classification GitHub

- Enhanced model accuracy by 15% through feature extraction optimization during exploratory data analysis (***EDA***) on protein sequences for machine learning (***ML***) models.
- Achieved a 20% increase in computational efficiency by fine-tuning ***ML algorithms*** within a ***PySpark*** framework for protein classification tasks, enabling faster processing of large-scale datasets.