Jay Nair
Software Engineer

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💼 Work Experience

IngenID   July 2024 - Present
Software Engineer   Rochester, NY

> Generated **$60,000** in revenue within a month by communicating with clients and integrating a deepfake audio detection model in a custom data collection and processing platform.
> Decreased user verification time by 50% by implementing **Google Cloud** Push Notifications using Firebase Cloud Messaging.
> Increased client onboarding rate by 25% by integrating voice biometric solutions into a **React**-based website with a **Node.js** backend hosted on **AWS EC2** instances supporting real-time audio streaming.
> Achieved a 60% reduction in build times by leveraging **Docker** to accelerate the CI/CD pipeline for PyTorch models.
> Enhanced deployment efficiency by 70% and reduced deployment failures by 45% by automating release pipelines for multiple full-stack web and mobile applications using Jenkins and Docker.

IngenID   May 2022 – December 2023
Software Engineer Intern   Rochester, NY

> Helped onboard 3 new customers by leading the development of a distributed multi-tiered full-stack web application using React and Node.js following **Agile** principles to showcase diverse audio submission methods.
> Achieved a 97% improvement in voice-authentication efficiency by developing a cross-platform mobile application.
> Attracted 15 new clients by publishing a no-code voice authentication plugin for the Bubble.io platform.
> Accelerated invoicing by 100% by engineering a website supporting dynamic financial data analytics using Express.js and React.js, incorporating **MongoDB** for data aggregation and reporting.
> Boosted overall system performance by 40% by developing robust **RESTful API** endpoints using **Java Spring Boot**.

Tata Consultancy Services   January 2021 - May 2021
Assistant Systems Engineer   Mumbai, India

> Saved over 35 hours of manual data correction within one month through unit testing in a **.NET**-based application.
> Enhanced product reliability by 15% through extensive API testing using automated **Python** scripts integrated with **Jenkins** for continuous data verification.
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🎓 Education

Rochester Institute of Technology   2021 – 2024
Master of Science, Computer Science   Rochester, NY
> GPA : 3.92
> Advanced Certification in Artificial Intelligence

⚗ Projects

🎓 Academical: Estimating the Depth of Small and Fast-Moving Objects
> Spearheaded the pioneering research that accurately estimates the depth and speed of small, fast-moving objects using the camera intrinsics and the mathematical pinhole model.
> Led the data collection process by utilizing LiDAR scanners, Stereo-Vision cameras and a regular video camera to record multi-modal cricket bowling videos.

👤 Personal: Not Not Art
> Developed a real-time multiplayer game using Next.js and Socket.io enabling people to play a turn-based artwork guessing game.

👤 Personal: Workout Tracker
> Pioneered a standalone Apple Watch application that significantly enhances gym efficiency by reducing workout duration by 70%, leveraging advanced tracking of rest intervals between exercise sets.

⚙ Skills

Languages: Python, C++, JavaScript, Swift, Java, Dart, GoLang, TypeScript, HTML/CSS

Technologies: AWS (EC2, S3, Lambda), SwiftUI, Docker, React, GCP, Azure, Node.js, REST APIs

Databases & OS: MongoDB, MySQL, SQLite, PostgreSQL, Linux/ Unix, iOS