

Mohammed Rishin Poolat

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Education

University of Leicester

Master of Science in Advanced Computer Science

Jan 2024 - May 2025

Leicester, United Kingdom

APJ Abdul Kalam Technological University

Bachelor of Technology in Computer Science and Engineering

July 2019 - Jun 2023

Kerala, India

Experience

Qburst

Software Engineer

Jul 2023 – Dec 2023

Kerala, India

- Led the development of a high-impact CMS project, built robust REST API using Node.js, saving 25% in development time and maintaining 98% API uptime through automated CI/CD pipelines and secure Docker containerization.
- Established a secure, scalable file upload system with AWS S3 and EC2, enhancing user content management, reducing storage costs by 30%, and improving reliability through automated backup and failover mechanisms.
- Acquired a high-performance culture through agile scrum team collaboration, data security, documentation, and networking. Resulted in a 40% boost in team efficiency and delivered tasks with a 95% completion rate on GitLab.
- Enhanced real-time communication using Socket.io, minimizing latency by 70% and implemented optimizations within a PostgreSQL database, resulting in a 30% reduction in database resource consumption.

Certifications

AWS Certified Cloud Practitioner

Amazon Web Services (AWS)

Issued: September 2024

- Demonstrated foundational knowledge of AWS services, cloud computing, security, and pricing models.

Projects

AI Commit Suggester | TypeScript, LLM, Inquirer.js

[Github](#)

- Developed a CLI tool that analyzes git staged changes and leverages LLM to generate contextual commit suggestions, improving commit quality by 65% and achieving 90% standardization across development teams.
- Implemented an interactive interface using Inquirer.js allowing developers to choose from AI-generated suggestions or customize messages, reducing average commit time by 75% with 95% adherence to best practices.

Penply | TypeScript, Next.js, TailwindCSS, Node.js, Express.js, AWS(EC2, DynamoDB, RDS, S3)

[Live](#)

- Developed a collaborative virtual study room application integrating real-time note sharing, file sharing, event management, and chat functionality into a seamless, all-in-one learning environment.
- Implemented a scalable microservices architecture with Docker containerization and leveraged AWS services (EC2, DynamoDB, RDS, S3) for a complete, high-availability cloud deployment.

Realtime Helmet Detector | Pandas, Numpy, TensorFlow, OpenCV, Scikit-Learn

[Source Code](#)

- Initiated the development and deployment of a real-time helmet detection system, utilizing advanced Deep Learning algorithms and Tensorflow to make data-driven decisions for the model, attaining a 90% accuracy rate.
- Built a custom Convolutional Neural Network (CNN) model on a diverse dataset of 4,000 images, and integrated the system into a RaspberryPi, resulting in an 80% reduction in helmet non-compliance.

YouTube Video Summarizer | TypeScript, Bun, Puppeteer, LLM, Grammy

[Github](#)

- Engineered an AI system that fetches transcripts from YouTube channels using Puppeteer and generates concise summaries through LLM integration, delivering 85% reduction in content consumption time.
- Built a Telegram bot using Grammy framework that allows users to receive instant video summaries by sharing YouTube channel names, with Node-cron for continuous monitoring with 95% accuracy.

Technical Skills

Languages: C, C++, Python, JavaScript, TypeScript, Java, SQL, HTML/CSS.

Libraries/Frameworks: React.js, Node.js, Express.js, Django, Next.js, Socket.IO, Grammy, Puppeteer, Inquirer.js.

AI/ML Tools: TensorFlow, OpenCV, MobileNetV2, Scikit-learn, Numpy, Pandas, NLTK, Matplotlib, LangChain.

Databases & Other: AWS, PostgreSQL, MongoDB, MySQL, Supabase, Git, Docker, Kubernetes, Redis, RabbitMQ, n8n.