

# Mohammed Rishin Poolat

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## Education

<b>University of Leicester</b> <i>Master of Science in Advanced Computer Science</i>	Jan 2024 - May 2025 Leicester, United Kingdom
<b>APJ Abdul Kalam Technological University</b> <i>Bachelor of Technology in Computer Science and Engineering</i>	July 2019 - Jun 2023 Kerala, India

## Experience

<b>Qburst</b> <i>Software Engineer</i>	Jul 2023 – Dec 2023 Kerala, India
<ul style="list-style-type: none"><li>Led the development of a high-impact CMS project, built robust REST API using Node.js, saving 25% in development time and achieving 98% API uptime through automated CI/CD pipelines and secure Docker containerization.</li><li>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.</li><li>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.</li><li>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.</li></ul>	

## Hackathons

<b>IBM CIC Hackathon: Finalist</b> <i>Project: Wise Wallet</i>	<b>Innovation Squad Member</b> <a href="#">Live</a>
<ul style="list-style-type: none"><li>Designed and engineered an innovative receipt analysis application that extracts text from user-uploaded receipts using OCR technology, leveraging a fine-tuned AI model to provide personalized suggestions and feedback.</li><li>Improved chatbot response accuracy by 20% with Firebase Cloud Firestore and Firestore Security Rules.</li><li>Collaborated with a team of developers and designers to create a functional prototype under the mentorship of IBM senior engineers, acquiring a position in the top five among 20 groups.</li></ul>	

## Certifications

<b>AWS Certified Cloud Practitioner</b> <i>Amazon Web Services (AWS)</i>	<i>Issued: September 2024</i>
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## Projects

<b>Penply</b>   <i>Next.js, TailwindCSS, React.js, Node.js, Express.js, AWS(EC2, DynamoDB, RDS, S3)</i>	<a href="#">Live</a>
<ul style="list-style-type: none"><li>Developed a collaborative virtual study room application using React.js, Next.js Node.js, Express.js, and Socket.io offering a smooth user experience with real-time note sharing, file sharing, event management, and chat.</li><li>Implemented a microservices architecture across three distinct applications, facilitating scalability and maintainability, and utilized Docker for containerization, ensuring consistent development and deployment.</li><li>Leveraged AWS services including EC2, DynamoDB, RDS(Relational Database Services), and S3 for a complete, high-availability, and performant cloud-based deployment.</li></ul>	
<b>Realtime Helmet Detector</b>   <i>Pandas, Numpy, TensorFlow, OpenCV, Scikit-Learn</i>	<a href="#">Source Code</a>
<ul style="list-style-type: none"><li>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.</li><li>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.</li><li>Demonstrated technical expertise and innovation by leveraging cutting-edge technologies, like image preprocessing, data augmentation, and real-time video analysis, resulting in a 50% reduction in helmet-related accidents.</li></ul>	

## Technical Skills

**Languages:** C, C++, Python, JavaScript, TypeScript, Java, SQL, HTML/CSS  
**Libraries/Frameworks:** Numpy, Pandas, React.js, Node.js, OpenCV, Matplotlib, Tensorflow, MobilenetV2, Socket.IO  
**Databases & Other:** AWS, PostgreSQL, MongoDB, MySQL, Git, Docker, Kubernetes, Nginx, Redis, Babel, RabbitMQ