

Aathik Jemseed

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EDUCATION

University of Warwick <i>MSc Applied Artificial Intelligence</i>	Coventry, UK Sep 2025 – Sep 2026
University of Warwick <i>BSc Computer Science (2:1)</i>	Coventry, UK Sep 2022 – Jun 2025
Relevant Modules: Software Engineering, Cyber Security, Sensor Networks, Operating Systems and Networks	
Highfields School <i>A Levels: Computer Science (A*) including 69/70 on NEA, Mathematics (A*), Business (A)</i>	Wolverhampton, UK Sep 2020 – Jun 2022

EXPERIENCE

Founding Software Engineer <i>Muvik - AI-Powered Freight Rate Management</i>	Jul 2025 – Sep 2025 New York City, USA (Remote)
• Architected a monorepo processing 50+ daily emails AI workflows, reducing manual handling from minutes to seconds	
• Designed RFQ validation schema supporting 30+ distinct shipment types with complex business rule dependencies	
• Implemented Redis caching layer for authentication tokens and session management, improving API response times	
• Developed event-driven email processing queue to handle peak loads and ensure reliable message handling	
Software Engineering Intern - Intelligent Vehicles <i>Warwick Manufacturing Group (WMG)</i>	Jul 2024 – Aug 2024 Coventry, UK
• Pioneered stereo camera localisation system to replace £5,000+ LiDAR hardware, achieving real-time processing at 3fps	
• Implemented pipeline with depth filtering, colour masking, edge detection, and angle calculation for real-time localisation	
• Achieved 0.557° measurement accuracy through optimised angle detection in varied lighting and terrain conditions	
• Researched and evaluated YOLO and MiDaS models for production deployment in autonomous vehicle systems	
Full-Stack Software Engineer <i>Mount Royal International School</i>	Jul 2023 – Sep 2023 Colombo, LK (Remote)
• Designed school system for 800+ students, automating fee collection and reducing manual admin tasks by 15 hours weekly	
• Redesigned SSG/SSR website with CMS, reducing load times from 4.2s to 1.8s and enabling non-technical content updates	
• Implemented SMS payment reminders with tracking, increasing on-time fee payments from 60% to 78% over 3 months	
• Created demographic dashboards analysing 5 years of data, identifying catchment areas for targeted marketing	
• Engineered discount calculator for sibling/scholarship rates, eliminating manual calculations and reducing errors	

PROJECTS

VideoPea <i>Browser-Based Video Editor Using FFmpeg WebAssembly</i>	
• Developed video editor enabling complete client-side processing without requiring software installations or server uploads	
• Leveraged FFmpeg WebAssembly with multi-layer timeline architecture supporting 10+ simultaneous tracks	
• Built Konva rendering engine delivering 30fps preview with algorithms translating timeline data to FFmpeg operations	
• Designed Zustand state architecture for 40% faster renders via React Scan, integrated Pexels assets, and 5+ export formats	
Unily <i>Group Video Chat and Messaging App on the Web</i>	
• Architected a scalable WebRTC-based group video chat and messaging application using TDD, achieving 90% test coverage	
• Shifted from Many-to-Many to Selective Forwarding Unit (SFU) architecture, cutting upload bandwidth by 50%	
• Integrated Google OAuth API and designed PWA with offline capabilities, resulting in 25% increase in user retention	

ACHIEVEMENTS & ACTIVITIES

British Computer Society (BCS) : Completed Diploma in IT (Level 5 UK Qualification) at the age of 16
WHACK Hackathon : Led a team to win the “Most Creative Project” out of 150 participants
Warwick Coding Society : Python and JavaScript mentor, supporting peers in coding skills and projects
Google Developer Student Club : Academic Representative, promoting academic initiatives
Residential Community Assistant : Provided pastoral care and crisis response for 500+ students
Community Volunteering : Participated in Sri Lanka flood relief efforts, distributing aid to affected families

SKILLS

Languages : TypeScript, JavaScript, Python, Java, SQL (PostgreSQL), NoSQL (MongoDB), HTML/CSS
Frameworks : Next.js, Mastro, Express, Django, Flask, Tailwind CSS, ROS, Jest
Libraries : React, Socket.io, Shadcn, BeautifulSoup, React Query, Redux, Pandas, OpenCV, Prisma
Tools : AWS, Docker, Redis, Convex, Git, GitHub, Figma, Linux, Bash, Nginx