

Aathik Jemseed

+447576445675 | aathikahamed@gmail.com | [LinkedIn](#) | [GitHub](#) | Wolverhampton, UK

EDUCATION

University of Warwick

MSc Applied Artificial Intelligence

Coventry, UK

Sep 2025 – Sep 2026

University of Warwick

BSc Computer Science (2:1)

Coventry, UK

Sep 2022 – Jun 2025

Relevant Modules: Software Engineering, Cyber Security, Sensor Networks, Operating Systems and Networks

Highfields School

A Levels: Computer Science (A*) including 69/70 on NEA, Mathematics (A*), Business (A)

Wolverhampton, UK

Sep 2020 – Jun 2022

EXPERIENCE

Founding Software Engineer

Jul 2025 – Sep 2025

Muvik - AI-Powered Freight Rate Management

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

Jul 2024 – Aug 2024

Warwick Manufacturing Group (WMG)

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

Jul 2023 – Sep 2023

Mount Royal International School

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 | Browser-Based Video Editor Using FFmpeg WebAssembly

- 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 | Group Video Chat and Messaging App on the Web

- 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, Mastra, 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