

# Justin Wilson John

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## SUMMARY

Enthusiastic Computer Science graduate specializing in Information Security, with over 1 year of hands-on professional experience in the UAE. Experienced in building AI-powered applications and automated workflows, with solid full-stack capabilities and the ability to bridge technical and business needs. Golden Visa holder.

## TECHNICAL SKILLS

**Programming:** Java, Python, JavaScript, MySQL, PostgreSQL

**Frameworks & Tools:** Node.js, Flask, Docker, Postman, Git, JMeter, n8n, pgvector, Jira, AWS

**Concepts:** Operating Systems, Data Structures & Algorithms, Computer Networks

**Soft Skills:** Collaboration, Adaptability, Problem-Solving, Communication

## EXPERIENCE

### QData (Stealth Startup)

Feb 2026 – Apr 2026

Junior Software Engineer Intern

Abu Dhabi, UAE

Engineered a News Agent system and reduced URL processing time from **45+ minutes** to **9 minutes** using **in-memory caching**, **B-Tree indexed deduplication**, **controlled concurrency (150 workers)**, and PostgreSQL connection recovery – enabling reliable processing of **1,700+ articles every 15 minutes**.

Developed **high-throughput backend systems** with **FastAPI**, including **WebSocket streaming** and **30+ REST APIs**, supporting real-time data processing and system performance.

Implemented a **PostgreSQL–SQLite failover system**, ensuring zero data loss and continuous operation during database outages.

Resolved **production memory leaks** in **AWS-hosted FastAPI services** by optimizing memory usage, cache eviction, and garbage collection – improving long-term system stability.

### Deloitte

Jun 2025 – Dec 2025

AI & Web Developer Intern

Abu Dhabi, UAE

Used **JIRA** to manage project tickets, track progress, and collaborate with BA's on business requirements.

Conducted **performance testing** with **JMeter** simulating **1000** concurrent users, improving endpoint response times by **23.5%** and ensuring stability under peak loads.

Built a locally hosted **threat intelligence system** using **n8n** and **pgvector**, integrating **9,850** MITRE ATT&CK/CVE entries for chatbot-based querying.

## PROJECTS

### AIAware News Platform

Nov 2025 – Present

Next.js, React, TypeScript, Firebase, Tailwind CSS

Show Website

Developed a production-grade news platform exploring the intersection of AI and cybersecurity.

Implemented full-stack architecture with Firebase (Firestore, Auth, Admin API) for real-time content delivery and user management.

Designed a secure custom CMS with Markdown support for editorial workflows and complex report publishing.

### Local AI Assistant – Chrome Extension

Feb 2025 – Apr 2025

JavaScript, TypeScript, Ollama, AI

Built a privacy-focused extension running local AI models (DeepSeek, Mistral, LLaMA) via **Ollama** to eliminate external API dependence.

Implemented modular background/content scripts and a popup UI for seamless interactions.

## EDUCATION

### Vellore Institute of Technology

Aug 2021 – Aug 2025

Bachelors of Technology in Computer Science (Information Security), CGPA: 8.49 / 10.0

Vellore, India

**Thesis:** A Comparative Analysis of BERT and LLM Models for Advanced Phishing Detection

### Abu Dhabi Indian School

Apr 2020 – Apr 2021

CBSE – Class 12: 86.8%, Class 10: 89.8%

Abu Dhabi, UAE

## ACHIEVEMENTS

Published my undergraduate research paper "A Comparative Analysis of BERT and LLM Models for Advanced Phishing Detection" in **IEEE Xplore** through IEEE CNC 2025; **Patent filed** based on the same work.

## CERTIFICATIONS

Google Cybersecurity Professional

Oracle Cloud Infrastructure 2024 Generative AI Certified Professional

Cyber Security – Python and Web Applications(StationX)