

JEROME DEVASSY

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PROFILE

Software Engineer with hands-on experience in **C#, C++, Java, and Python**, with a background in building **consumer-facing, client-side applications** and production-scale services. Experienced with **CI/CD pipelines, automated testing**, and collaborative engineering workflows. Proven ability to write **clean, maintainable code** within established codebases, troubleshoot across application layers, and deliver reliable software to real users. Eager to deepen technical ownership and contribute to high-quality products used at scale.

EDUCATION

- SEPT 2025 – SEPT 2026: **SOFTWARE DESIGN WITH ARTIFICIAL INTELLIGENCE (MSC)**, TUS ATHLONE
- SEPT 2020 – OCT 2024: **SOFTWARE DESIGN WITH VR AND GAMING (BSC)**, TUS ATHLONE
- APRIL 2020: **CENTRAL BOARD OF SECONDARY EDUCATION, INDIAN SCHOOL MUSCAT, OMAN**

SKILLS

- **Programming Languages:** C#, C++, Java, Python, JavaScript, SQL, HTML
- **Client-Side & Desktop Development:** Client-side application development, mobile application development, UI development patterns
- **Frameworks & Libraries:** Spring Boot, React.js, AngularJS, Maven
- **CI/CD & DevOps:** Jenkins, Screwdriver, **CI/CD pipelines**, automated testing, AWS (EC2, S3, RDS, Lambda), Nginx
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Tools & Platforms:** Git, REST APIs, Linux, Arduino IDE
- **Other Technologies:** Unity, Blender, OpenGL
- **Security:** AES, RSA, SHA-256
- **Soft Skills:** Analytical problem-solving, **clear communication**, teamwork, code review participation, troubleshooting, adaptability

PROFESSIONAL EXPERIENCE

FROM JAN 2023 – SEPT 2023

SOFTWARE ENGINEERING INTERN, YAHOO EMEA

- Contributed to the **development and maintenance** of the Profile Targeting System (PTS), a **production, consumer-facing service** operating at scale, using **Java, Spring Boot, and AWS**.
- Built a new **CI/CD pipeline** supporting **automated testing** with **Jenkins and Screwdriver**, improving deployment reliability and release quality.
- Upgraded PTS services to Java 17 and implemented sealed classes, improving **maintainability and performance** within an existing production codebase.
- Reduced user data storage costs in a live production region by designing and deploying a **data filtering component**.
- Participated in **code reviews**, applied feedback to improve code quality, and collaborated with **cross-functional teams** in an Agile engineering environment.
- Participated in a three-week hackathon, collaborating with cross-functional intern teams to develop an internal office tool.
- **Technologies:** Java 17, Spring Boot, AWS, PostgreSQL, Screwdriver, Jenkins, Git.

FROM 2020 – 2022

TECHNICAL VOLUNTEER, ST. BRENDAN BIRR PARISH

- Designed, developed, and deployed a **consumer-facing mobile application** for parish operations, independently managing the full development lifecycle.
- Maintained and iterated on a **production application** with real end users, performing **troubleshooting, testing**, and ongoing improvements to stability and performance.
- Assisted with installation and configuration of electronic payment systems and supported website maintenance and updates, building practical experience in **real-world technical problem-solving**.
- **Technologies:** Web development tools, Git, Android development concepts.

PROJECTS

AGILEMIND (MULTI-AGENT LLM SYSTEM FOR AUTOMATED PROJECT MANAGEMENT)

- Built a **full-stack, agentic AI system** that decomposes natural-language prompts into structured tasks and matches them to developer profiles.
- Designed a three-stage **agentic pipeline** with **Spring AI** over a **Spring Boot backend, React.js front-end, and MongoDB**.
- Engineered **system prompts, project-context construction, and tool calls** to drive **LLM reasoning**, with interchangeable inference between the **Google Gemini API** (cloud) and a locally deployed **Gemma3-12b** instance.
- Ran a structured **user evaluation** measuring output quality and confidence and co-authored the resulting research paper.
- **Technologies: Java, Spring Boot, Spring AI, React.js, MongoDB, LLMs (Gemini API, Gemma3-12b), LM Studio, REST APIs, prompt engineering.**

WEB SCRAPER PRICE AGGREGATOR (CLOUD-HOSTED FULL-STACK APP)

- Built a **full-stack** application that scrapes supermarket data in **Python**, aggregates prices, and presents them in a real-time.
- Used **AngularJS front-end** with an intuitive **user interface**. Hosted on **AWS** with a **PostgreSQL RDS** instance.
- **Technologies: Python, AngularJS, AWS EC2, AWS RDS, PostgreSQL.**

ROBOTICS & EMBEDDED SYSTEMS

- Created **embedded device** prototypes including an automated plant-watering system and a robotic arm.
- Wrote **firmware** in Arduino IDE (C++), collaborating on circuit design and 3D printing.
- Won category for innovation and functionality.
- **Technologies: Arduino (C++), sensors, embedded systems.**

TEXT BASED RPG ENGINE (C++)

- Developed a console **RPG in C++** using object-oriented design, data persistence, and file I/O.
- Worked around **Turbo C++** compiler constraints, strengthening low-level debugging and **systems programming** skills.
- **Technologies: C++, File I/O, OOP.**

ADDITIONAL HIGHLIGHTS

- Prioritises accuracy and **thorough testing** to deliver reliable, reproducible results across software and hardware. Writes **clean, well-structured, maintainable code** with robust error handling, applying disciplined debugging and **troubleshooting across application and platform layers** to ensure smooth, dependable user experiences.
- Contributed to **large-scale, consumer-facing production systems** serving millions of users, including **CI/CD pipelines** and **data-processing components** that delivered measurable cost reductions and improved deployment reliability which are all built, tested, and documented to a professional standard.
- Carries tasks from requirement through to working solution, producing well-documented, **production-ready results** across agentic AI systems, **full-stack cloud-hosted applications**, interactive **client-side front-end** projects, and embedded systems.
- Collaborates effectively in **cross-functional and Scrum teams**, actively seeking and acting on feedback from **code reviews** to continuously improve code quality and technical skills. Supports troubleshooting and investigations, adapts quickly to changing requirements and ambiguity, flags blockers early, and stays hands-on to help the team deliver by backing the best technical solution for the project over personal preference.