

# CHARLIE GALLAGHER

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## **PROFILE:**

Technically skilled and proactive third-year Software Engineering student specializing in AI for Cloud Computing at TUS Athlone. Strong foundation in app development, machine learning, and Agile teamwork, with a proven ability to deliver results in academic and real-world projects. Experienced in using modern development tools and leading through class representation and international alliance councils.

## **EDUCATION:**

BSc in Software Engineering with Artificial Intelligence for Cloud Computing | Technological University of the Shannon, Athlone — 2023–Present (Expected 2:1+)

### **Key Involvements:**

- RUN-EU Student Council Chair
- TUS Student Council Member
- Class Representative

### **Core Modules**

Year 3: Software Engineering; Software Development for Cloud; Software Development; Server-Side Web Development; Networks; Web Development; Placement Preparation

Year 2: Software Development for Cloud; Software Development; Agile Methodologies; Databases; Web Development; Mobile Application Development; Maths for Software Design

Year 1: Web App Development with AI; Software Development; Mobile Applications; Mathematics for Software Development; Communication for Engineering; Immersive Technologies; Game Development

## **TECHNICAL SKILLS:**

- Languages & Scripting: Python; Java; JavaScript; Dart; HTML; CSS; SQL
- Frameworks & Tools: Spring Boot; Flutter; Flask; Firebase; Android Studio; VS Code; PyCharm
- AI & ML Development: YOLOv8; LangChain; OpenCV; TensorFlow Lite; RAG
- Database & Web: RESTful APIs; JSON; H2; SQLite
- Mobile Development: Flutter (cross-platform); SharedPreferences; model deployment
- Tools & Workflow: Git (GitHub; Bitbucket); Trello; Agile/Scrum
- Productivity & Software: Microsoft Office (GMetrix); Adobe Photoshop; Premiere Pro

## **WORK EXPERIENCE:**

### **Crew Member | McDonald's, Athlone — Sept 2024 – November 2025**

- Adapted across kitchen, service, and drive-thru roles in a dynamic, fast-paced setting
- Prioritised speed, accuracy, and customer satisfaction during peak trading hours
- Took initiative to support team coordination and smooth shift transitions
- Consistently upheld McDonald's brand standards and workplace protocols

## **Crew Member | Supermacs & Papa John's, Birr — Jul 2022 – Aug 2024**

- Trained and supported new hires in store operations and hygiene practices
- Managed stock levels, expiry tracking, and compliance logs
- Coordinated large catering orders for clubs and community events
- Balanced kitchen prep, POS duties, and customer engagement during high footfall

## **PROJECT EXPERIENCE:**

### **BeeCareful App & RUN-EU SAP: Bee Analytics & Business**

- International Short Advanced Program (SAP) tackling beekeeping challenges with AI
- Scrum with Trello; version control on Git/Bitbucket; regular stand-ups/demos
- Built Flutter app with YOLOv8 + TFLite for on-device Varroa mite & bee-gender classification
- Labelled datasets via Roboflow; ONNX for model conversion; TFLite for mobile optimisation; final presentation to faculty/partners in Howest University of Applied Sciences, Kortrijk, Belgium

## **LEADERSHIP & VOLUNTEERING:**

- RUN-EU Student Council Chair: Contributed to international education initiatives across the European Union
- Class Representative (2023–Present): Represented class interests, gathered feedback, liaised with staff
- TUS Student Council: Collaborated with elected reps on policy and academic welfare
- European Youth Parliament: Debated EU issues in a formal assembly, strengthening public speaking and civic awareness
- CoderDojo Volunteer: Mentored young learners in Python/Scratch
- Gaisce & John Paul II Awards: Recognised for leadership and community service

## **CERTIFICATIONS:**

- GMetrix Microsoft Office (Word, Excel, PowerPoint)
- HACCP
- Manual Handling
- First Aid
- McDonald's Internal Training: Food Hygiene, Safety, Operations
- Supermacs Online Training

## **INTERESTS:**

- Game Modding & Systems Customisation — configure/troubleshoot mods (load orders, script extenders, .ini tweaks, patching)
- Tabletop RPGs & Game Design — mechanics, balance, collaborative storytelling
- Photography & Video Editing — Instax Mini 12, Adobe Photoshop & Premiere Pro

## **REFERENCES AVAILABLE UPON REQUEST**