

TAHSEEN AHMAD

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PROFESSIONAL SUMMARY

Third-year BSc Computing Science student at Griffith College Dublin (GPA 8.7/10.0). I am a hands-on problem solver with practical experience in software engineering, cloud infrastructure, Linux systems, and OS-level programming. I build things independently beyond coursework, take full ownership of projects from design through to delivery, and actively integrate AI tools into my development workflow. Eager to contribute to meaningful engineering challenges and grow within a team of experienced engineers.

EDUCATION

BSc (Hons) in Computing Science

Sep 2023 to July 2027

Griffith College Dublin | Dublin, Ireland | GPA: **8.7 / 10.0**

Relevant coursework: Algorithms and Data Structures, Object-Oriented Design, Operating Systems, Security Fundamentals, Database Systems

EXPERIENCE

Team Lead, Software Development Project | Griffith College Dublin

Mar to May 2025

- Owned end-to-end delivery of a scalable Java-based simulation supporting 4 concurrent users and ~2,000 events per session, applying Strategy and Factory OOP design patterns to produce a clean, maintainable, and extensible architecture.
- Diagnosed and resolved a critical performance bottleneck through systematic profiling, reducing latency by ~30% by isolating the root cause from first principles, validating the fix, and documenting findings for the team.
- Led code reviews, authored comprehensive technical documentation, and presented engineering decisions to 30 stakeholders, reducing team onboarding time by ~40% and demonstrating consistent best practices throughout.

Student Orientation Volunteer | Griffith College Dublin

Sep to Oct 2024

- Supported 100+ students in a high-volume environment, triaging issues across multiple workstreams, escalating appropriately, and communicating clearly with diverse audiences under sustained operational pressure.
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PROJECTS

Unix Shell, Built from Scratch in Python | github.com/TahseenLabs/CustomShell

April 2026

- Implemented a fully functional Unix shell across 50 test-driven stages covering REPL design, built-in commands, I/O redirection, pipeline chaining, readline tab completion with Longest Common Prefix logic, and full history persistence via HISTFILE. Every stage was verified against exact expected output with no hand-waving allowed.
- Resolved a complex OS-level bug where tail -f piped to head -n 5 hung indefinitely due to Python holding an extra file descriptor reference, preventing SIGPIPE delivery to the downstream process. Fixed by passing file descriptors directly at the OS level, eliminating Python buffering entirely. A concrete lesson in process management, signal handling, and inter-process communication.

AWS Cloud Deployment and Monitoring | ahmadtahseen.ie

2025 to Present

- Independently designed and operated a globally distributed web application on AWS (EC2, S3, CloudFront, CloudWatch) with automated monitoring pipelines, security hardening, and full lifecycle ownership from architecture through ongoing optimisation.
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TECHNICAL SKILLS

Languages: Python, Java (OOP, design patterns), SQL, Bash

Systems and OS: Linux administration (LPI Certified), process management, file descriptors, signals, pipelines, I/O

Cloud and Infrastructure: AWS (EC2, S3, CloudFront, CloudWatch), security hardening, access control, monitoring

AI and Productivity: GitHub Copilot, Cursor, Claude, integrated across design, implementation, testing, and documentation

Engineering Practices: Git, GitHub, code reviews, OOP design patterns, technical documentation, agile delivery

CERTIFICATIONS

[AWS Certified Cloud Practitioner](#) | Amazon Web Services (Valid: Jul 2025 to Jul 2028)

[Linux Essentials \(010-160\)](#) | Linux Professional Institute

[PCEP-30-02 Certified Entry-Level Python Programmer](#) | Python Institute