

Suibhne Sweeney

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SUMMARY

I am a computing student with a passion for problem-solving, seeking internships in software engineering, unit testing, and dev-ops. Eager to learn and gain insights into the evolving software development landscape. I aim to utilize my strengths, such as teamwork, communication, and technical skills, to make a meaningful contribution to my field. [LinkedIn](#) (link to profile).

GENERAL KEY SKILLS

Technical Communication / Interpersonal - Throughout my coursework, tutoring and my contributions to resource development at the Computing Learning Centre in TUD. I developed skills to communicate with others, helping with code review and ways to solve problems.

Teamwork - Having led both my projects in second year, I possess strong teamwork skills, including effective collaboration, task delegation, and the ability to incorporate diverse ideas.

Adaptability - Excel in adapting to diverse situations, whether in coursework, team collaborations, or evolving project demands.

Problem-solving - Through my second-year project and software development classes, I honed my problem-solving skills, designing and implementing solutions.

TECHNICAL SKILLS

Software Engineering and Development - Consistently optimizing code and sharing solutions on platforms like [LeetCode](#) (link to profile). Strong interest in algorithms and data structures. Adhere to Agile development principles. Strong coding skills in Python, C++, Java, and NodeJS.

Database and Data Analysis - Advanced SQL and PL/SQL querying skills, practical experience with Oracle Cloud, SQLite, Postgres, and NoSQL databases like MongoDB. Proficiency in creating normalized and ERD-based database schemas. Strong data analysis skills using Excel and Python libraries like Pandas and NumPy, including machine learning with Scikit-Learn for trend prediction.

Operating Systems - Skilled in system administration for both Windows and Linux operating systems. Moreover, Proficient in writing scripts using Batch, Bash, Python.

Full Stack Web Development - Active [GitHub](#) (link to profile) full-stack web development, spanning many projects with Django, the MERN stack, and Bootstrap. Proficient in JavaScript, HTML, CSS, database management, server-side scripting, and UML system analysis.

Unit Testing - Proficient in automated software testing tools like Selenium and unit testing with Python and Django, ensuring the reliability and functionality of code.

EDUCATION & QUALIFICATIONS

September 2021 – Present: Technological University Dublin - Tallaght Campus
Course: BSc (Hons) in Computing with Software Development (Graduation 2025)

(Please see appendix for complete list of modules studied and exam results)

Significant Projects Undertaken

E-commerce and Custom PC Building Web Application

Description: A team project at TUD involving the development of a full-stack e-commerce website using Django, with user authentication and a validation system through an API. The website sells pre-built PCs and other PC-related items and allows customers to build their own custom PC by selecting specific parts. This involved designing and implementing a dynamic user interface, integrating various APIs and technologies, and ensuring a secure and reliable transaction system.

<https://dev.azure.com/X00191280/ProjectYear2>

Challenges faced:

- Developing a custom configuration tool to allow users to select and customize individual PC parts.
- Deciding on what APIs to use.
- Keeping website fast and responsive.

Technologies & Tools Used:

JavaScript, Python, HTML, CSS, Django, SMTP, Bootstrap, APIs (Hunter, Stripe), HTTPS, Jinja, Linode

WORK EXPERIENCE

July 2023 – August 2023

Student Computing Tutor

TU Dublin Tallaght

Company Description: Computing Learning Centre TUD. Provide support to help students having trouble with their 3rd level learning experience and in preparation for exams.

<https://www.tudublin.ie/explore/our-campuses/tallaght/>

Main Responsibilities

Teaching Tutees

Conducting individual tutorials for multiple students across various years and subjects, spanning from July to August, all conducted online at TU Dublin. Wrote informative write-ups adding to the learning resources available at the Computing Learning Centre.

INTERESTS & ACHIEVEMENTS

Clubs and Colleges

- 2022: Health Hackathon in TU Dublin.
- 2023: Monthly workshops at [Devcard](#).

Professional - Vocational

- Student / Affiliate Member of the Formula 1 Students Club TUD.
- Amazon AWS evening classes during the college semester.
- Hobby building Raspberry Pi Drones.
- Music – Instruments: Violin and Piano

Posts of responsibility

- Volunteered at Our Lady's Hospice and Care Services on Harold's Cross, Dublin.
- Volunteered at [Abalta Special School](#).

REFERENCES

Ms Patricia Magee (Patricia.Magee@TUDublin.ie) – Lecturer, Computing & Digital School, TU Dublin

Mr Michael Murphy (MichaelA.Murphy@tudublin.ie) – Lecturer, Computing & Digital School, TU Dublin

Appendix

3rd Year Modules

Cloud Services and Distributed Computing
Data Structures and Algorithms
Server-Side Web Development
Big Data Technologies
Operating Systems
Data Analysis
Work Placement

2nd Year Modules

Software Development 3	A
Software Quality Assurance and Testing	B+
Advanced Database Technologies	B
Network Fundamentals	C+
Client-Side Web Development	A
Discrete Mathematics 2	A
Software Development 4	A
Project	A
Data Administration and Analysis	A
Routing & Switching Essentials	B
Information Security	C+
Management Science	A

Overall Grade: 3.54

1st Year Modules

Software Development 1	C+
Discrete Mathematics 1	C
Visual Design and User Experience	C+
Critical Skills Development	B
Computer Architecture	B
Business & Information Systems	B-
Software Development 2	A
Systems Analysis	B-
Database Fundamentals	B
Statistics	B-
Operating Systems Fundamentals	B
Social Media Communications	B