

David Wilson

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PERSONAL STATEMENT

Final year Computer Science student at University College Cork (UCC), eager to gain practical experience in the field through graduate roles and other opportunities. With a strong foundation in programming languages such as Python, Java, and JavaScript, and a passion for Software/Web development. Dedicated to contributing skills to a software development team and making a meaningful impact.

EDUCATION

Leaving Certificate

St. Joseph's Patrician College (The Bish) • Galway, Ireland • 2019 – 2021

Subjects: Mathematics, Business, Accounting, DCG, Chemistry, English

BSc Computer Science

University College Cork • Cork, Ireland • 2021 – 2025

Year 4: Android Development, Parallel & Grid Computing, Mobile & Wireless Networks, Network Security, IOT, AI

Year 3: Team Project (80%), C-Microcontrollers (80%), Advanced Java (65%), Cloud Infrastructure (59%), Ethical Hacking (52%), Networks and Data Communication (49%)

Year 2: Logic Design (72%), Intermediate Programming (69%), Information Storage & Management (65%), Usability Engineering (65%), Operating Systems (57%), Networking (56%)

Year 1: Web Development (81%), Programming(python) (71%), Foundations of Computer Science (66%), Hardware Organization (63%)

EXPERIENCE

IT Intern • EMBL

Heidelberg, DE

March 2024 – August 2024

- Developed full-stack Java/Spring Boot applications and APIs, delivering robust and scalable solutions.
- Optimized loading times and efficiency of a data management application by over 30%, while reducing code complexity.
- Deployed applications using Docker and Kubernetes, leveraging CI/CD pipelines for automated and seamless deployments.
- Developed Python scripts to support the LDAP system, facilitating the migration and synchronization.
- Designed and implemented custom APIs to interface with large-scale databases, ensuring performance and data integrity.

PROJECTS

Gather

June 2022 – August 2022

- Led a project using Python, Flask, HTML, CSS, and JavaScript to create an event planning app.
- Enhanced collaboration, project management, and problem-solving skills.
- Managed project tasks, designed the database, and crafted login and homepage interfaces.
- Optimized page loading times with efficient SQL queries for improved user experience.
- Strengthened website security through password hashing, 2FA, and SQL data management.

Cavson

May 2023 – Present

- Developed a Point-of-Sale web app using React and JavaScript for UI/UX, focusing on learning.
- Implemented PostgreSQL database for flexible and secure data management.
- Transitioned development to Vite, reducing build times by 47% for improved efficiency.
- Integrated public and private APIs, collaborating with the backend team for enhanced functionality.
- Diagnosed and resolved issues while engaging both Node.js and Django backend systems, ensuring seamless app operation.

SKILLS

Programming languages: Python, Java, C

Web Development: Spring Boot, Vaadin, JavaScript, Bootstrap, Tailwind

Back-end: Flask, Jinja, MySQL, MongoDB, SQLite, PostgreSQL

System Administration: Linux, Git, Bash

Platforms: Mac, Windows

Other tools: VSCode, JetBrains, Github/Gitlabs, Insomnia, Lens, Docker, Kubernetes

ADDITIONAL QUALIFICATIONS

Spoken Languages: English (Native/Bilingual), Hungarian (Native)

Driving License: Full, clean license

REFERENCES

Available Upon Request

ACHIEVEMENTS

CS50x – edX Harvard (online)

June 2022 – August 2022

- Completed an intensive and comprehensive course on computer science fundamentals and programming.
- Refined and honed skills in coding, project and time management, and independent thinking.
- Collaborated with peers in a small group on a final project (Gather), using skills learnt from the course.
- Further enhanced knowledge in Python, C, SQL, algorithms and improved skills in Linux, Git, and debugging techniques.

IrlCPC – Competitive Programming

March 2023

- Achieved 7th place out of a total of 30 participating teams in the competition. Competing in a team of 3.
 - Devised the most effective solution to one of the most challenging problems, resulting in the highest score.
 - Exhibited proficiency in algorithm design, problem-solving, and programming skills in a competitive programming environment.
 - Improved analytical and logical reasoning abilities by exploring programming techniques and algorithms.
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INTERESTS

IT:

- Interest in electronics and understanding the inner workings to aid in troubleshooting and repairs.
- Experienced in identifying and resolving hardware problems with technology, including replacement of faulty components.
- Proficient in fixing a majority of common issues in Windows and Mac operating systems.

Hobbies

Bouldering:

- Hone skills in cooperation through partnering with climbing partners to tackle challenging routes.
- Develop analytical thinking skills by strategizing and finding creative solutions to each climb.
- Practice handling stress in high-pressure situations through pushing personal limits and overcoming obstacles while climbing.

Skiing:

- Gained quick decision making abilities, crucial in high stress and fast-paced situations.
- Practiced coordination and communication with skiing partners to ensure safety and improve experience.
- Taught peers skiing and honed skills in effective communication and leadership.