

Nicholas Yeadon

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Objective

As a fourth-year software engineering student at the University of Technology Sydney, I am passionate about designing and building scalable, efficient software solutions. I'm seeking a Software Engineering internship opportunity to apply my technical skills and problem-solving abilities in a real-world environment. My goal is to thrive in dynamic team environments, contribute to innovative projects and deliver impactful solutions, leveraging my proficiency in object-oriented programming, problem solving and experience in customer service and teamwork.

Education

Bachelor of Engineering (Honours) | Software Engineering | (Expected: 12/2025)

University of Technology Sydney

- **High Distinction** in Data Structures & Algorithms, Advanced Algorithms, Mathematics, Applications Programming, and Network Fundamentals
- Current **GPA**: 6.17 / 81.38 WAM

Technical Skills

- **Programming Languages**: C, C++, Python, Java, JavaFX, MySQL
- **Development Methodologies**: Agile, Scrum
- **Data Structures & Algorithms**: Dijkstra's Algorithm, Dynamic Programming, Graphs, Trees
- **Operating Systems**: Ubuntu, NixOS, Arch Linux, Window 10/11
- **Version Control**: Git, GitHub

Technical Projects

Word Path Solver using Dijkstra's Algorithm

Implemented Dijkstra's algorithm to find shortest path between two words by changing one letter at a time. Compared algorithm efficiency and optimized computational complexity.

Technologies used: C++, Priority Queues, Directed weighted Graphs.

Password Manager in C (Collaborative Project)

- Collaboratively developed a password manager in C, implementing XOR cipher encryption to securely encrypt user credentials.
- Worked with a partner to integrate Huffman encoding for data compression, reducing storage space while maintaining data integrity.
- Designed system to handle password storage, retrieval, and encryption, applying principles of security and compression in a team-based environment.

Work Experience

BWS Team Member | Endeavour Group, Sydney, NSW | 05/2022 – Present

- Delivered quality customer service while ensuring compliance with RSA guidelines.
- Collaborated with team members to efficiently manage online orders and physical tasks.
- Utilized digital systems to maintain stock levels and ensure seamless operations.

Waiter/Bartender | Vapiano King Street, Sydney, NSW | 02/2022 – 05/2022

- Collaborated in a fast-paced environment to provide excellent customer service and ensure timely delivery of orders.
- Demonstrated teamwork and effective communication to meet customer and team needs.

Swimming Instructor | A Stroke Ahead Swimming, Goulburn NSW | 12/2019 – 01/2021

- Created a comfortable and safe environment for young children while teaching swimming techniques.

Transferable Skills

Communication	Developed articulate written and verbal communication skills through work in hospitality, teaching, and retail. These experiences helped me effectively explain complex concepts to people from diverse backgrounds, such as communicating swimming techniques or providing product recommendations. During my technical projects, I applied these skills to communicate clearly with team members when troubleshooting issues, ensuring smooth collaboration and timely project completion.
Collaboration	Through group projects and work experience, I have honed my ability to collaborate with people of varying perspectives. For example, while working on a password manager project, I communicated and collaborated with my partner to divide tasks, address bugs, and complete the project efficiently. Similarly, at BWS, I worked with team members to meet customer needs and manage online orders effectively, balancing multiple tasks in a fast-paced environment.
Problem-Solving / IT Skills	Developed strong problem-solving skills through both technical and non-technical experiences. In my personal tech projects, such as building custom computers and implementing mechanical keyboards, I've applied problem-solving to hardware and software challenges. My technical expertise extends to using tools like Autodesk Fusion 360 for 3D modelling and 3D printing to troubleshoot design problems. Additionally, I've gained proficiency in POS systems and software applications through my work experience, applying these skills to improve efficiency in managing bookings and recording data.

References

Available on request