

# Nicholas Foti

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Junior Software Engineer |  [LinkedIn](#) |  [GitHub](#) |  [Portfolio](#)

A Junior Software Engineer, focused on making an impact in the tech industry. With a strong problem-solving foundation and a quick-learning mindset, I'm ready to apply my skills to real-world projects. I'm eager to join a dynamic environment where I can grow and contribute to impactful, innovative solutions.

## EDUCATION

Joondalup, WA	Edith Cowan University	Jan 2022 – Nov 2024
<ul style="list-style-type: none"><li><b>Bachelor:</b> Computer Science</li></ul>	<b>Major:</b> Software Engineering	<b>GPA:</b> 3.781
<ul style="list-style-type: none"><li><b>Relevant Courses:</b> Data Structures and Algorithms, Object-oriented Analysis and Design, Systems and Database Design, Foundations of Software Engineering, Software Testing, Computer Security, Applications Development.</li></ul>		

## EMPLOYMENT

Software Developer Internship	Redi Software	Jul 2024 – Nov 2024
<ul style="list-style-type: none"><li>Developed and configured Azure function API connectors using C# to seamlessly integrate external third-party systems, enabling automated data ingestion, transformation, and visualization on user dashboards.</li><li>Enhanced data pipelines by leveraging Azure Functions, Queues, and Key Vault for secure, scalable, and efficient data processing.</li><li>Designed and optimized SQL database structures to store API connector configurations, ensuring scalable and performant data retrieval, with improvements in query speed.</li><li>Collaborated closely with senior developers to troubleshoot complex API integration issues, implementing fixes and performance enhancements that reduced latency and improved overall system reliability.</li><li>Documented technical processes and solutions, contributing to documentation for future issue resolution.</li><li>Conducted testing and deployment of updated workflows, ensuring seamless functionality and client satisfaction.</li></ul>		

## PROJECTS

**Personal Website:** <https://nfotiportfolio.com> (For additional information and live demo projects)

### BST & AVL Tree Visualiser | [GitHub](#)

- Developed an application using Python that allows the user to create and manipulate their own Binary Search Tree (BST) and AVL tree data structure.
- Used Python for algorithm design, focusing on tree operations such as insertions, deletions, and balancing.
- Used graphical visualisation to dynamically represent tree structures, enhancing understanding of tree algorithms.
- Utilised:** Python, Object Oriented Programming, Data Structures, Algorithms, Graphical visualisation.

### Fake Casino Website | [GitHub](#)

- Developed a full-stack casino simulation platform featuring real-time multiplayer games (Blackjack, Roulette) with WebSocket integration for live betting updates and synchronized game states across all users.
- Implemented secure user authentication, virtual currency management, and persistent game states using JWT tokens and PostgreSQL, while maintaining transaction integrity for betting operations.
- Utilised:** React, CSS, Socket.IO, Three.js, Axios, Node.js, Express.js, PostgreSQL, JWT, API Integration

### YouTube Media Converter | [GitHub](#)

- Created a web application that allows the user to convert any YouTube video into either a .MP3 or .MP4 file.
- Leverages APIs to fetch video data from YouTube and facilitate the conversion process.
- Utilised:** JavaScript, Express.js, Node.js, API Integration, Multimedia processing.

## SKILLS

**Software & Tools:** C#/.NET, SQL, Python, JavaScript, React, Angular, Vue, Node.js, HTML, CSS, Git, Azure, PostgreSQL

(familiar): Java, Matlab, Ruby, C++, Lua, AWS

**Soft Skills:** Leadership & Team Collaboration, Effective Communication, Critical Thinking & Problem-solving, Willingness to learn, Proactive Initiative, Attention to Detail, Proven Reliability, Hardworking, Efficient time management, Adaptability