

# Nicholas An

## B.Eng. Computer Engineer

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[LinkedIn](#)

### OVERVIEW

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- Proficient in full-stack development, data structures, algorithms, software systems, and object-oriented analysis and design. Showcasing solving and critical thinking abilities, utilized to dissect intricate technical challenges and provide innovative solutions while maintaining meticulous attention to detail.
- Passionate about providing innovative solutions to technical challenges through use of market-level coding frameworks and libraries. Commitment to time management and self-motivation ensures on-schedule project delivery and high-quality outcomes.
- Strong communication skills paired with a collaborative approach to cross-functional teamwork foster productive cooperation and goal achievement within project teams. Adaptability ensures thriving in dynamic work environments and tailoring skills to meet project requirements.

### WORK EXPERIENCE

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#### Technical Analyst

Aug 2021 – Apr 2023

Goodness Me! Natural Food Market, Hamilton, Canada

- Effectively managed enterprise server systems on Azure, utilizing advanced tools such as active directory, distribution lists, and remote networks to enhance code and data operation.
- Applied coding expertise across a server of systems, to install security programs and files, optimizing resource allocation, enhancing cybersecurity measures and implementing a server crash detection system for first response technical assistance.
- Implemented network security measures, detecting malware, identifying at-risk accounts post-data breach, uncovering and restoring over 50+ uncovering compromised user accounts.

#### Software Programming Private Tutor

Sept 2018 – Aug 2021

Peer Tutoring, Oakville, Canada

- Guided and supported high school students in their programming journeys, significantly contributing to their understanding of fundamental programming concepts and problem-solving skills improving course grade percentages by an average of +30%.
- Designed engaging programming exercises and projects tailored to individual student needs, enhancing their comprehension and coding proficiency.
- Facilitated interactive coding sessions, fostering a collaborative and inclusive learning environment where students could ask questions, share ideas, and work together to overcome coding challenges.

### TECHNICAL SKILLS

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| • Languages (Python, JavaScript, Java, SQL, HTML, CSS) | • Data Structures and Advanced Algorithms |
| • Developer Tools (GitHub, Visual Studio Code)         | • API Development and Integration         |
| • Frameworks and Libraries (Django, jQuery, Bootstrap) | • Cloud Computing and DevOps (Azure)      |

### EDUCATION

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#### Bachelor of Engineering, Computer Engineering

Sep 2016 – May 2021

Ryerson University, Toronto, Canada

- Honours Scholarship Award (TGPA 80%+)

## TECHNICAL PROJECTS

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[GitHub Portfolio](https://github.com/nicholasan98) – <https://github.com/nicholasan98>

### Project 1: Reddit API Clone App

- Developed a Reddit API application in Python, designed to download the first unread hot post from a specified subreddit.
- Demonstrates proficiency in Python programming and expertise in API integration.
- Future plans to expand the project into a mobile application, showcasing adaptability and forward-thinking in app development.

### Project 2: Sudoku Solver

- Created a Sudoku puzzle solver in Python, showcasing strong problem-solving skills and algorithmic expertise such as DFS to implement backtracking.
- Demonstrated logical thinking and the ability to tackle complex puzzles programmatically.
- Designed an interactive web interface to allow users to solve Sudoku puzzles online, incorporating front-end development skills.

### Project 3: Database Creation and Management

- Leveraged Java to design, create, and administer an SQL database system optimized for efficient data registration and retrieval.
- Underscores expertise in database management and proficiency in Java programming.
- Demonstrates the capacity to handle data effectively and securely, vital skills in back-end system architecture.

### Project 4: Network Security (Java)

- Created a small network security project in Java, featuring a robust server-client architecture with multiple security methods, including encryption and decryption.
- Demonstrates practical applications of network security concepts and strong Java programming skills.
- Illustrates the ability to address data security concerns effectively in networked applications.