Matthew Day H1

student number, email address H2

Why am I even Here? H3

My interest in IT spans back to my childhood where I grew up pre internet as we know it. Back in the day it was dial up internet and waiting 5 minutes for a simple image to load so much later when I was introduced two sites called YouTube and Newgrounds were hundreds upon hundreds of videos of anything I could imagine it truly shook my world and pulled me into the internet and showed me all the potential for creativity and the countless types of sharing abilities that awaited me.

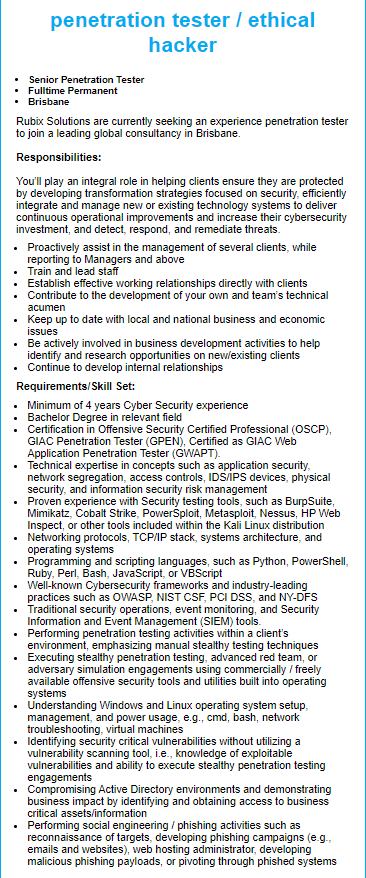
After finishing high school and a Cert III in business I found myself working in a small family owned retail store were one of my many duties was general IT to save money on hiring someone else. This showed me just how much I enjoyed IT as a source of work and started my learning journey. I asked everyone I could from friends to family and even field professionals and RMIT kept coming up again and again, the only problem, I didn’t live in Melbourne nor could I move. So, upon finding out that online courses where available I signed up right away and am now a fully enrolled student.

WHERE TO SHOVE EXTRA PERSONAL INFO SUCH AS HOBBIES AND CULTURE AND OTHER HOBBY SHIT

Just where do I want to be? H3

My main goal is for my study path to lead me into a fruitful career and just what career do I find myself looking for the most? Ethical hacking and security. This job found on Seek is just one example of the many Ethical hacking jobs being advertised every day.

<https://www.seek.com.au/job/41087333?type=standout#searchRequestToken=f2db07f9-2cf9-496a-a70a-67a8a079e8e3>



This job is for a Senior Penetration analysis and therefore comes with many responsibilities. The key aspects of the job are obviously helping ensure clients internet safety by not only helping with the upkeep of system already implemented by the company but also help integrate new systems into the company for the safety of the clients.

This job covers so many different areas of IT and therefor requires many skills and experience especially since it is a senior position. It is already a prerequisite to have at least 4 years in a similar position previous but to also hold a bachelor's degree in a relevant position. The actual skills that this job requires varies largely but the key ones are a solid understanding in programming languages such as Python, Ruby and JavaScript. The in-depth knowledge of the popular operating systems such as Microsoft and Linux alongside the knowledge of concepts in multiple security variations.

Right now, my abilities are far from ready to tackle this job but that’s what goals are for. I only have a rather basic understanding of two programming languages (JavaScript and Python) and only a surface knowledge into what goes into cyber security. Not to mention my lack of leadership abilities at the current time. I’m looking forward to using my current degree to help build on all aspects of this and especially using the group work to help with building leadership qualities. I may even pursue a master's in cyber security if that’s what interests me later when I have finish by current degree.

1. Personal Profile

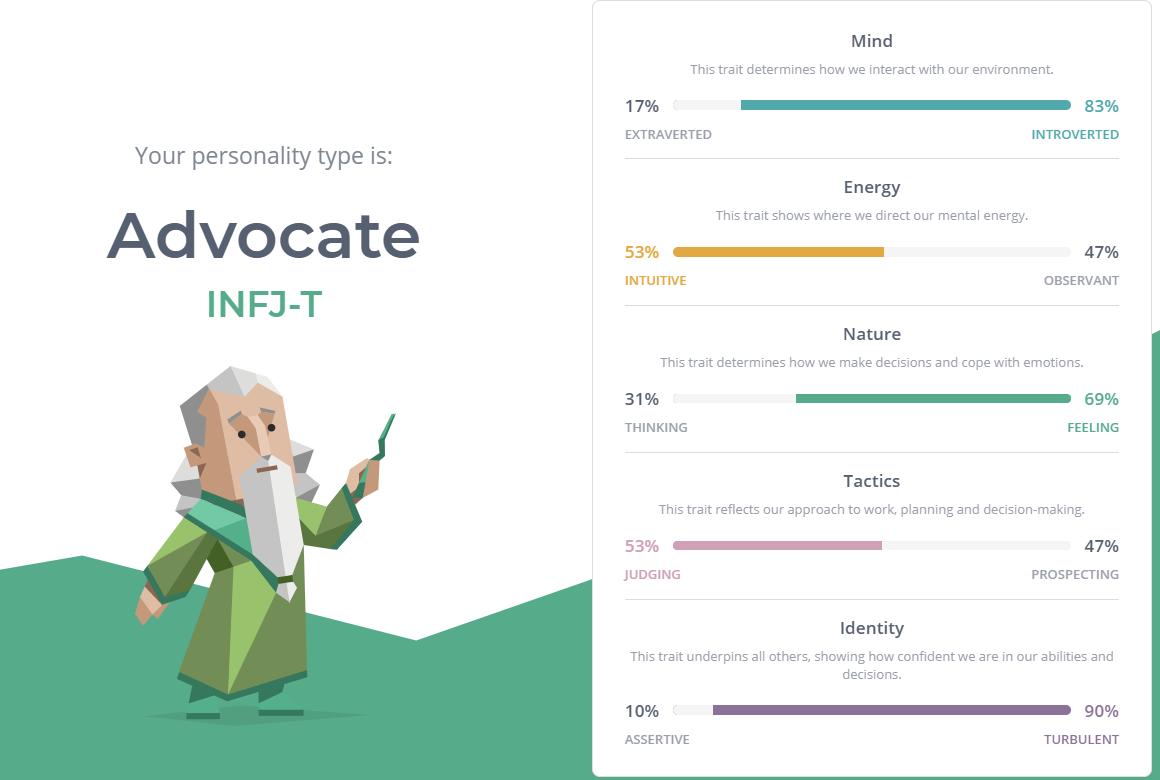
Write one paragraph each dedicated to the results of the 3 online tests you completed. These tests are:

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* An online learning style test
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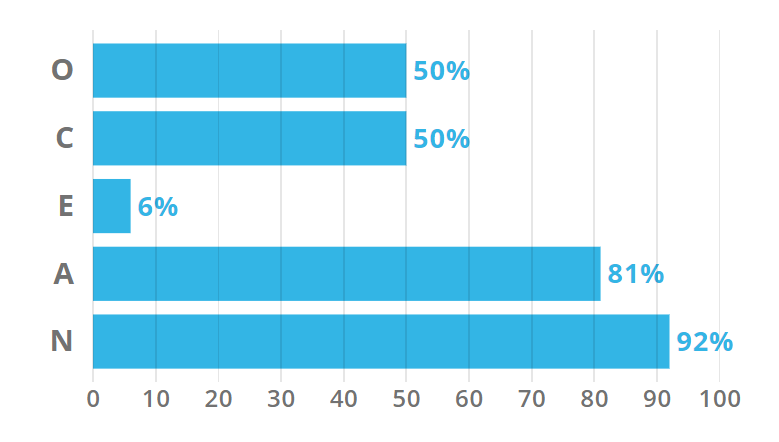
Additional reflection information to include:

* What do the results of these tests mean for you?
* How do you think these results may influence your behavior in a team?
* How should you take this into account when forming a team?

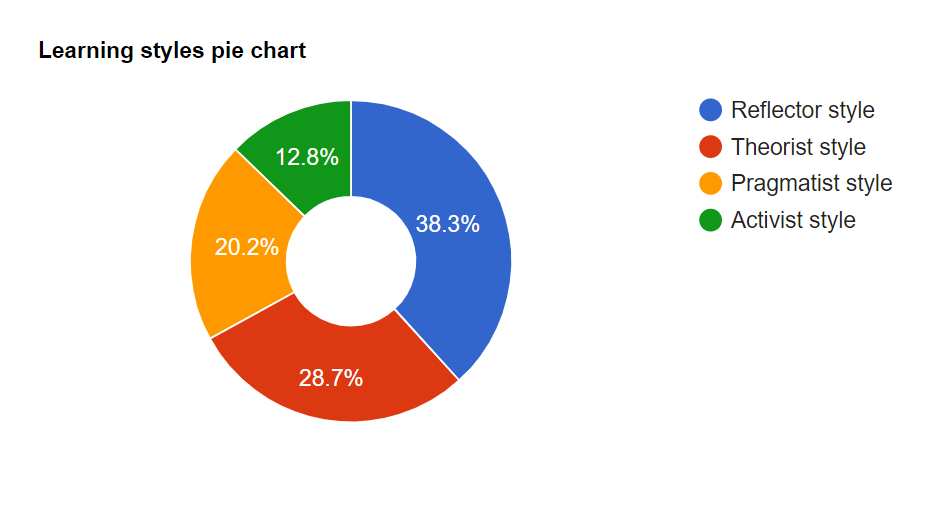
Who am I? H3

I have taken three online tests for the sake of showing my personality. The first is the Myer Briggs test(LINK TO TEST). The results are in and my personality type has come back as INFJ-T, but what does this mean? Essentially this describes me as introverted, intuitive, feeling and judging. Breaking this down its believed that INFJ people are meant to be introverted idealists with strong moral standards.

The second test I took was the big five personality test (LINK TO TEST) which breaks my score down into five dimensions of personality: Openness, Conscientiousness, Extraversion, Agreeableness and Neuroticism. The breakdown is quite clear with a massive swing towards agreeableness and neuroticism. Both typically go hand in hand, the neuroticism tends to show people who hold themselves to strong morals and think strongly with their feelings, high agreeableness tends to mean that these people tend to help others rather than help themselves.



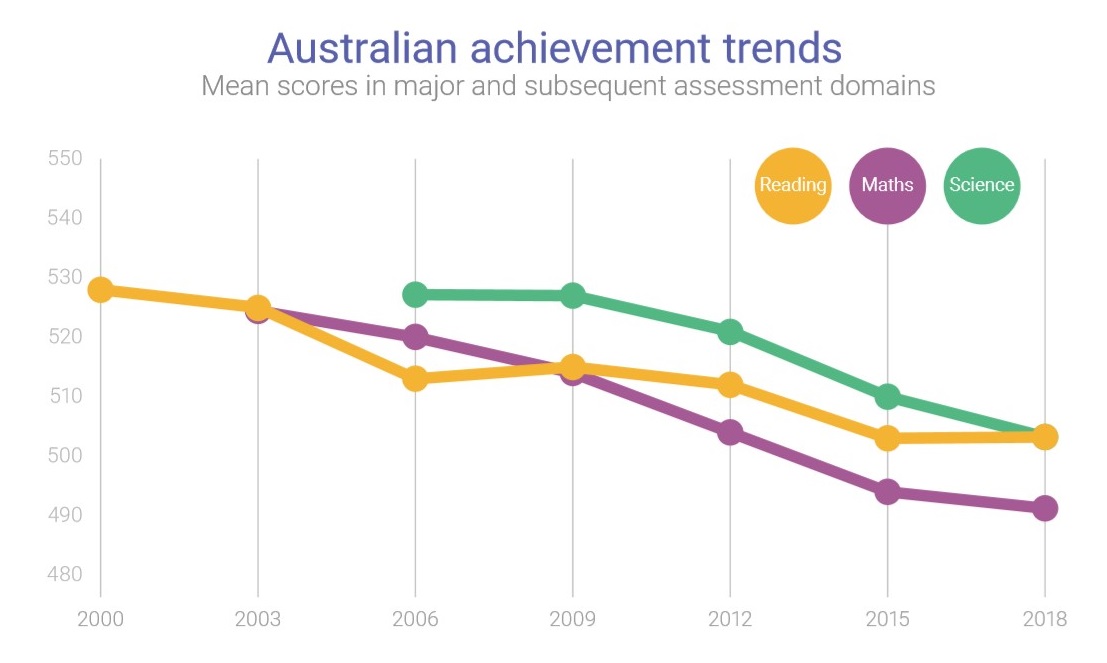
The last test I took was the learning styles test (LINK TO TEST) this test gave some rather all rounding results with a low of activist and higher in reflector and theorist. Reflector is all about standing back and observing and collect information and analyse it rather than jump right in. The theorist is similar and approaches problems in a logical manner and value rationality and objectivity highly.



All these test out together shows a quite clear personality of someone who is rather introverted and stands back and keeps quite at the start of a project or problem and absorbs all the information needed. Then taking this information and tackling the problem in a logical and planned manner. These people often work well with people who are more outgoing and willing to speak up and throw out wild ideas whereas they don’t work well with others of similar types since there's a lot less ideas spilling out and more just dissecting information.

The Big Idea H3

My big project idea is to target the lack of interaction students get outside of school whether it is a lack of resources or just the students lack of interest. The idea is to build a chat bot to act as the student’s personal assistant. With the help of each school the bot will be able to help students with resources cover all topics that are currently being studied and with any assignments or projects happening. The bot will also have a personalized element with each student to make it much more engaging, by using things such as personalized reminders concerning the students current study.



Infographic supplied by: <https://www.abc.net.au/news/2019-12-03/australias-slide-backwards-graph/11762312>

Today’s high school students are falling behind in more than one way, from math’s to English and science scores are at a new low. With many reasons being given for these scores such as “anxiety and lack of creativity to make learning fun” (Duffy and Wylie, 2019) . I believe that the bot will help provide a much more thrilling and engaging way to receive information, learning resources and help keep students on track with learning goals and will help with the outcome of improving test scores in students.

The core concept and feature behind this project idea is to give each student a fully functional personal assistant, there are a few keyways that this can be achieved. Firstly, each student will be given a login where they will fill out basic information about themselves (age, name, hobbies etc.) which the bot will then later use these in basic chat to form a much more alluring personal experience with the student.

A calendar for the current study intake period will also be implemented into the bot with data such as assignment due dates and exam dates alongside class times, all this will be dictated by the school or teacher beforehand so it will be ready for use by the student. The student will also be able to add to the calendar with goals and objectives for their study or to complete part of their assignments, the calendar can be requested for viewing at any time by the student along with whatever is marked down for specific dates. The bot will also give prompts to the student concerning upcoming items on the calendar to help keep the student on track with their current study and personal goals.

Another key feature to the study bot is the ability to bring up relevant study information. Too often students find themselves struggling to find study resources relevant to what they are studying, with the help of teachers and schools the bot can be implemented with applicable study material. This can be requested by students with commands like “I need help with math” and the bot will bring up relevant math information and study resources according to what the student is studying in class.

Sometimes students need to just express themselves so a journal element to the bot would greatly help relieve stress from the life of hard-working students. The ability to log the day in a more personal and subtle approach with the bot by using prompts such as “how was your day?” and further questions like “how did that feel?” or “are you stressed?” will help the journaling feel much more natural and less intrusive to students.

An overall human touch and feeling should radiate from the bot when students talk to it. By using certain wording and prompts such as “How was your day student?” for the journal or “Hey this is what's happening today” for the calendar can make the entire experience a much more friendly one. Also using information obtained from the user such as names, nicknames and hobbies alongside teacher names and specific class names the bot can give a far more personal experience to each student making it feel less like another school aspect and much more like a personal assistant designed to help them.

The integration with school and teacher information is a key feature of the bot. Information such as relevant study material, student timetables, assessment and exam details and dates will be extremely important for the bot to hold on its servers so that it can pull these upon student's request. So, although a large side of this project is based on data in servers and the building and upkeep of these servers and the bot itself, another equally large side is a human side of the teachers and school system to help input necessary information for their students.

The many aspects that go into this project require a variety of skills and hardware and a mix human input. The first aspect is the chat bot itself, there are already plenty of prebuilt chat bot skeletons in existence on site such as ‘botmart.com’ but the upkeep and building will of course need to be done on preferably advanced Python skills as it is already the standard for many chat bot developers. Dedicated servers will be needed to store data and resources for the clients, also server maintenance and upkeep will be needed so knowing a server-side language such as PHP or java will be necessary. Basic encryption will also be needed for the student log ins.

Hopefully the outcome of this development will impact the study life of many students. The end goals is to have students be not only far more engaged in their studies by having a reliable and fun ‘study buddy’ to keep them on track with their studies. By making relevant resources for self-study and help to all students will make them far less anxious about tackling topics in class and get rid of the dread of assignments. All of this should push grades up across all feeds the bot is implemented in and get future students ready and willing to study.

Purpose of assignment: to present information based on questions below on a website on GitHub

1. Interest in IT

Areas of topic to discuss (1 paragraph for topic):

* What is your interest in IT? When did your interest in IT start? Was there a particular event or person that sparked your interest? Outline your IT experience (if any).
* Why did you choose to come to RMIT?
* What do you expect to learn during your studies?

PERSONAL INFORMATION TO ADD: your name, student number, email address, and some basic background information nationality and culture, education to date, languages spoken. Include at least one fact about yourself that others may find interesting, such as a hobby, a pet or your favorite sport or other pastime

Questions to help open up topics:

1. What makes IT interesting for you?
2. Why do you like technology?
3. What lead you to study at RMIT?
4. How is it in comparison to other universities
5. What does it offer differently?
6. What are your expectations for the course/what do you hope to learn?
7. What do you hope to do after graduation?
8. What is your ideal job?
9. Ideal Job

Find an advertisement showing what you believe to be your ideal job. This may require several years of experience, and hence be something that you must work towards, rather than something that you are ready for now, or will be able to fill as soon as you graduate.

Information that should be included:

* The job advertisement itself. Include a link, and a snapshot of it (in case the link expires before the assignment deadline).
* A description (in your own words) of the position, and particularly what makes this position appealing to you.
* A description (in your own words) of the skills, qualifications and experience required for the position.
* A description (in your own words) of the skills, qualifications and experience you currently have.
* A plan describing how you will obtain the skills, qualifications and experience required for the position, building on those you have now. This need not be greatly detailed, (and will probably change significantly over time anyway) but try to be as specific as you can.

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Additional reflection information to include:

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1. Project idea

You are to write a report of around 1000 words describing your project idea. You should describe the project itself, as well as why you think it is important or interesting, and any potential drawbacks or obstacles you anticipate.

Questions to ask yourself:

* What are you passionate about?
* What kind of IT innovation would you like to see?
* What project will help you develop the skills, experience and knowledge required to make you qualified for your ideal job?

Potential ideas, and more will be discussed in the following weeks:

* Developing a game using tools such as Unity, Construct2 or Cocos2d
* Developing a smartphone app, using whatever programming language in which you have expertise, or by using tools such as MIT App Inventor
* Finding an innovative application for new hardware developments, such as Raspberry Pis, Arduinos, Makey Makeys, small robots or related technologies
* Creating a FAQ and implementing it as a chatterbot, possibly involving speech-to-text and text-to-speech software
* Building an electronic artefact such as a model for Minecraft or similar games, along the lines of the United Nations Block by Block project

GENERAL STRUCTURE:

* Overview (100 words) - This should be a summary of what the project will be.
* Motivation (100) words) - This should be a description of why the project will be interesting or useful. This may include statistics or other evidence, such as: "There service. are 1.5 billion cat owners in Australia, and so there is a huge market for an automated cat feeder. Using Raspberry Pi technology is a cheap and easily assembled solution to this problem."
* Description (500 words) - Detailed description of the features of the product or service
* Tools and Technologies (100) words) - Describe the software, hardware and/or other equipment needed. Include any relevant open source tools as appropriate
* Skills Required (100 words) - List the skills are required for your project, including software that needs to be written, and special hardware (if any). How feasible will it be to find the skills, software and hardware required?
* Outcome (100 words) - If the project is successful, what will be the outcome? How will the original problem be solved? What impact will this development have?

Duffy, C. and Wylie, B., 2019. *Australian Students Slip In Global Maths, Reading And Science Rankings*. [online] ABC News. Available at: <https://www.abc.net.au/news/2019-12-03/australia-education-results-maths-reading-science-getting-worse/11760880> [Accessed 14 March 2020].