**What are the Job Titles for your group's ideal jobs?**

**Jake**: Penetration Tester

**Stephen:** Software Developer

**Alan**: Software Developer

**Akhil:** CTO (Chief Technology Officer)

**Jack**: Business Development Manager

**How do each of these rank in terms of demand from employers?**

1st – Stephen & Alan

2nd – Jake

3rd – Jack

4th – Akhil

**From your group’s ideal jobs, you can identify a set of skills required for these jobs (we will refer to this as your group’s required skill set).**

**Jake - Penetration Tester (Ideal job):**

* Experience with penetration testing tools (metaspoit, john the ripper, wireshark, Rubber ducky etc)
* Initiative
* Experience with scripting languages (Python, javascript)
* Strong command of multiple operating systems (UNIX and Windows)
* Strong understand of networking
* Experience with IDS/IPS devices
* Experience with wireless technologies
* Understanding of common security standards and compliance standards
* Excellent written and verbal communication skills
* Strong teamwork skills

**Alan - Software Developer (Ideal job):**

* Sound experience in data processing and/or creation of eDM campaigns
* Experienced in HTML & CSS
* Strong troubleshooting and problem-solving skills
* Experience with database programming using either MSSQL, MYSQL or PostgreSQL
* Unix scripting experience an advantage
* Experience with web service and system development/solutions architecture an advantage
* Knowledge/experience with ‘Agile’ development methodology
* Excellent communications skills
* Able to work independently and as part of team
* Strong command of multiple programming languages (Java, Javascript etc)

**Stephen - Software Developer (Ideal job):**

* Experience with Java, C, C++ or other related object-oriented programming languages
* Strong teamwork skills
* Experience with data structures
* Initiative and creativity
* Technical experience from previous projects

**Jack – Business Development Manager (Ideal Job):**

* Comprehensive experience within the fields of business development and information technology.
* An ability to engage with customers confidently
* Proven track record of improving sales
* Be able to translate technical requirements to business concepts
* Proven writing and presentation skills
* Strong, positive attitude
* Understanding of sales processes

**Akhil – Chief Technical Officer (Ideal Job):**

* Experience as a CTO (or a similar role)
* Demonstrated success in CRM/2-sided marketplace/mobile apps
* Cloud server deployment and maintenance, familiar with VM/Storage/Database products on AWS
* Experience building and managing microservices architecture – Familiar with NodeJS, Nginx-proxy, Redis, Harbinger as well as SQL and Mongo DB
* Familiar with Java and React
* Experience with managing big data, electrical systems management, grid management and energy systems management
* A background in E-Commerce
* Familiar with Docker deployment and maintenance
* Experience building API’s
* A strong background in automated testing strategies
* Ability to take products to market and scale them
* Strong understanding of product commercialisation
* Experience working in Agile environments
* High EQ and people leadership experience
* Able to coordinate between Sydney and off shore team
* Experience building a tech team
* BA in Electrical Engineering with a Master’s in Computer Science

**These can be divided into general skills (communication, problem solving, writing etc) and IT-specific skills (Javascript, SQL, etc).**

**Our Collective Required Skills (General):**

* Initiative & Creativity
* Ability to work independently
* Organisational skills
* Time-management skills
* Teamwork skills
* Excellent verbal communication skills
* Excellent written communication skills

**Our Collective Required Skills (IT - Specific):**

* Java
* C
* C++
* SQL
* CSS
* HTML
* Python
* Javascript
* Linux
* Windows
* Experience with Cloud Computing
* Experience with Databases
* Prior experience in the IT Industry
* Business management
* Project management
* Customer service skills

**How do the IT-specific skills in your required skill set rank in terms of demand from employers?**

Our collective IT-specific skill rank highly regarding the demand from employers in the labour market. The top four IT-skill in demand are part of our skill set, these skills being SQL, Javascript, Java and Microsoft Windows. We have a portion of our skills lying in the middle of the graph, showing that while still in demand, there isn’t a shortage of these skill in the work force. These skills include business management, project management, customer service, C, C++, html and CSS. And the less in demand skills of our group are Python, cloud computing and databases. To summarise this, in general our skills are relatively in demand with a good spread of skills with varying levels of demand.

**How do the general skills in your required skill set rank in terms of demand from employers?**

In regards to our general skills, we have a toolbox of general skill in high demand, these include excellent written and verbal communication skills, teamwork skills, creativity and organisational skills with time-management skills and initiative ranking mid and lower, respectively. Having these key attributes allows employers to be confident that we can achieve the goals set out for us regardless of the goals set in front of us and makes us highly sort after in the IT-Industry. You can learn the IT skills but its hard to develop the general skillset we have acquired.

**What are the three highest ranked IT-specific skills which are not in your required skill set?**

The three highest ranking IT-specific skills that we don’t require are SAP, building relationships and business analysis.

**What are the three highest ranked general skills which are not in your required skill set?**

The three highest ranking general skills that are not in our required skill set are troubleshooting, planning and detail-oriented.

**Having looked at the Burning Glass data, has your opinion of your ideal job changed? Why or why not?**

After reviewing all the industry data provided by Burning Glass my opinion of my ideal job has remained the same. The world is already so interconnected and we are moving at an exponential rate to further interconnectedness. With the world accelerating in this direction in the future there will always be a need for security and with the more things we connect to the internet the more targets arise for nefarious actors to attempt to infiltrate. As we learn to defend against them, they come back in different and more complex ways. In IT the demand for cybersecurity experts will remain constant at the very least but more than likely increase with society increasing embracing the digital age every day. In summary, my opinion hasn’t change as there will always be a demand for cybersecurity in the decades to come and its only now that the world is waking up to its true importance in the wake of breaches like Saudi Aramco, talk-talk in the UK and wikileaks.