

**Andrew Cheng**  
**DATA ANALYST | SOFTWARE ENGINEER | IT SUPPORT**  
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LinkedIn: <https://www.linkedin.com/in/andrewcheng887/>  
Portfolio: <https://zreddd.github.io/portfolio/>  
(Full-time working right)

## SKILLS OVERVIEW

- **Programming Languages:** C++ | Python | C#
- **Data:** Power BI | SQL | NoSQL | Excel | Data ETL | Data Cleaning | Data visualisation | PostgreSQL | Business support | Spark
- **Web Development:** HTML | CSS | JavaScript | PHP | Node.js | Vue | Chart.js | MVC | UI/UX | JSON | Git
- **Cloud Computing & DevOps:** GCP | AWS | Docker | Docker Swarm | Kubernetes | Jira | Slack | Trello
- **IT Support & Technical Skills:** Hardware & Software Installation | Electronics and IT hardware diagnostics and repair.
- A qualified Software Engineer with one year of experience working as technical officer at Queensland Children hospital (and 3 months working as Junior Data Analyst for a software company called Desygner). Additionally, 4 years' experience as IT support at Culture University.
- Holder of a master's degree in computer science from The University of Queensland. I have hands-on experience in web development, cloud computing, data analysis, and IT support.
- Successfully involved multiple projects namely:
  - **Desygner:**
    1. Cleaning the company database of inactive users (5+ years) and generating a data visualisation report.
  - **Queensland Children's Hospital and The University of Queensland:**
    1. Developed web applications for Movement Behavior Questionnaire, enhancing data visualisation.
    2. Provided accessible data to support a clearer understanding of children's behavior and needs
  - **Culture University:**
    1. Managed university-wide computer systems and projectors, reducing breakdowns
    2. Facilitated the installation and maintenance of hardware and software.

## EMPLOYMENT HISTORY

February 2024 – Current	<b>TECHNICAL OFFICER / SENIOR RESEARCH ASSISTANT</b> The University of Queensland & Queensland Children's Hospital – Brisbane, Australia  <i>Duties:</i> <ul style="list-style-type: none"><li>• Developed and integrated functionalities of software applications using Node.js, HTML, CSS, and JavaScript, resulting in a 30% increase in user engagement.</li><li>• Built a web-based questionnaire for the Movement Behavior Questionnaire, providing data visualisation for parents and researchers.</li><li>• Improved software applications based on feedback from researchers and parents, increasing application efficiency by 20%.</li><li>• Collaborated with cross-functional teams to gather requirements, troubleshoot issues, and implement solutions, ensuring seamless integration of new features and reducing system bugs by 15%.</li></ul>
January 2024 – March 2024	<b>DATA ANALYST</b> Desygner – Gold Coast, Australia  <i>Duties:</i> <ul style="list-style-type: none"><li>• Conducted data cleaning using MySQL Workbench, significantly improving database quality by 40%.</li><li>• Processed customer and user data for visualisation, aiding strategic decision-making and improving decision-making speed.</li><li>• Implemented GDPR policies for data security and compliance, achieving 100% compliance in data management practices.</li><li>• Managed DevOps/GitHub source control processes for data projects, ensuring version control and streamlined collaboration, reducing integration time by 25%.</li></ul>
December 2017 – July 2021	<b>IT SUPPORT SPECIALIST</b> Cultural University – Taipei, Taiwan

- Duties:*
- Managed university-wide computer systems and projectors, ensuring minimal downtime and increasing system uptime by 25%.
  - Interacted with faculty members to diagnose and resolve technical issues, achieving a 90% resolution rate within the first hour of reporting.
  - Coordinated with vendors for parts replacement and warranty services, reducing maintenance costs.
  - Facilitated the installation and maintenance of hardware and software, ensuring compliance with corporate security policies and standards.

## **EDUCATION BACKGROUND**

### **Academic Qualifications**

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July 2022 – June 2024      **MASTER OF COMPUTER SCIENCE**  
The University of Queensland – Australia

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*Key Study Areas:* Data Science and Analytics | Cloud Computing and Distributed Systems | Software Engineering and Development | Web Development and Mobile Applications | Business Analytics and Statistical Decision-Making

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*Thesis:* **Developed parallelized passive radar systems using CUDA on GP-GPU platforms, optimizing performance with FFT-based correlation and real-time data.**

*Duties:* Conducted algorithm analysis, performance evaluation, and bottleneck identification, ensuring efficient and reliable radar processing.

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*Key Project:*

1. Analyzed data sets in data lake and data warehouse for business insights.
2. Utilized data mining algorithms for predictive accurate data set.
3. Developed and deployed a scalable online course website on GCP using PHP, CSS, HTML, and JavaScript.

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July 2017 – July 2021      **BACHEOR OF COMPUTER SCIENCE AND INFORMATION ENGINEERING**  
Culture University – Taiwan

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*Key Study Areas:* Big Data | Cloud computing | Embedded system | Algorithm | Software development

## **REFEREES**

### **Dr Konstanty Bialkowski**

Senior Lecturer  
The University of Queensland  
St Lucia, Brisbane Queensland 4072  
**P:** 07 336 52766  
**E:** [ksb@uq.edu.au](mailto:ksb@uq.edu.au)

Dr Konstanty is my thesis supervisor during my Master of Computer Science at The University of Queensland.

### **Jerry Chen**

AI Engineer  
Desygner  
Level 664 Ferny Avenue, Surfers Paradise, QLD 4217  
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Jerry Chen is my colleague during my data analyst role in Desygner

### **Stewart Trost**

Researcher & Conjoint Professor  
The University of Queensland & Queensland Children's Hospital  
494 Stanley Street, South Brisbane Queensland 4101  
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Stewart Trost is my current supervisor during my Technical Officer/ Senior Research Assistant at The University of Queensland & Queensland Children's Hospital.