


# CARINA ZHENG

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## TECHNICAL SKILL

- 7 years solid experience with **R** (Rcmdr, RStudio and Shiny) and MS **SQL** Server;
- Excellent Statistics knowledge in Exploratory Data Analysis, Regression Modelling, **Time Series** and **Bayesian inference**;
- Good combined **machine learning** knowledge and implementation skills (from **Statistics** and **Computer Science**);
- Experience with **SSRS**;
- Advanced in Pentaho (Data Integration);
- Familiar with **AGILE Scrum** project framework;
- Solid computer science knowledge in programming (**Python, JavaScript, C#, C+, C**), web development and networking;
- 11 years' experience of MS Office Suite
- Familiar with **Source Code** Management Systems (GIT, SVN);
- Self-learning **Scala** and **Deep Learning**.



## PERSONAL SKILL

- **Passionate about data**, analyse data to answer questions, “unleash the power of data” (Statistics NZ);
- **Multilingual**, speaking fluently in English (NZ citizen), Cantonese and Mandarin;
- Always **enthusiastic** to learn and improve;
- **Creative** and **open-minded** to solutions;
- A **co-operative** team member who can work **independently** when required;
- Good **communication, interpersonal** and **analytical skills**, able to work closely with managers, colleagues, and customers;
- Clear **business and technical writing**.



## PROJECTS

- **Interactive** application that analyses users' spending habits, presents relevant visual reports and provides suggestions. (COCOCATTY LTD.)
- Personal **researches**: Pet Hotspot, Music Video Content Grading.



## EXPERIENCE

### Statistical Analyst Level 1 | Statistics New Zealand

OCTOBER 2016 – CURRENT

- One of the **core members** who created a fully functional platform, which processes raw data and generated useful information by using machine learning; main tools used: R, Shiny, JavaScript, Java, SQL, API, REST client;
- Enhance and support the new data processing platform, which has been used for Stats NZ projects (for example, 2018 Census, Migration Data);
- A **highly flexible multi-roles project member**. In the International Migration project, when I am:

- ❖ a Project lead, I ensure we are complying AGILIE principles;
- ❖ a Developer, I ensure my code is efficient, easy to follow and sufficiently commented;
- ❖ a Business analyst, I ensure Product owner's and team members' requirements are well-balanced and documented;
- ❖ a Technical support, I ensure project needs are sufficiently analyzed so that appropriate solutions are applied;
- ❖ a Tester, I ensure scenarios are well set up and coverage is as much as possible; feedbacks are written in clear manner;
- Build and maintain SQL Server Reporting Services (**SSRS**);
- Created and maintaining various **Shiny reports** to display user-friendly information on data security, data collection overview, processed data statistics;
- Delivered successful and informative **demonstrations** to **different types of audiences**: from technical experts to senior managers;
- Provided training sessions and support to colleagues;
- Providing useful enhancement and development suggestions across multiple areas;
- Participating multiple internal and external courses, conferences;
- Participated 2017 **UNECE "Telling stories with SDG data Hackathon"**.

### Database Analyst and Support Technician | Intelligenz Solutions

MARCH 2016 – OCTOBER 2016 (10 HOURS PER WEEK TO HANDLE TOP PRIORITY TASKS)

FEBRUARY 2014 – APRIL 2015 (30 HOURS PER WEEK TO HANDLE URGENT TASKS)

NOVEMBER 2011 – FEBRUARY 2014 (FULL-TIME)

- Database management – check and resolve data integrities of clients' databases;
- Database integration – integrate data from clients' source databases to destination databases in various database types;
- Software Development – debug and enhance codes in C# (Visual Studio 2008 and 2012);
- Customer Support – provide general software support to clients;
- Multilingual software enhancement – manage and test multilingual resources;
- International on-site training and support – provide software training and on-site support to clients.



## EDUCATION

### Bachelor of Science in Statistics and Computer Science

University of Canterbury, February 2014 – October 2016

**Summer Scholarship Project** 2015/16 with Stats NZ

Built a **statistically informed interactive map** for Statistics New Zealand by using R (RStudio and Shiny), HTML and CSS. Demo video is available on [Interactive Map Link](#);

### Diploma in Information and Communications Technology

Christchurch Polytechnic Institute of Technology, JULY 2009 – JULY 2011



## INTERESTS

Squash, photography, languages (currently learning Spanish), reading, travelling, DIY projects, calligraphy, gardening and building robot.



## REFEREES

References are available upon request.