

Nicholas Russell

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Education and Qualifications

The Australian National University

Bachelor of Science (Computer Science and Resource & Environmental Mgmt.)

- GPA 6.36
- Key learnings: Java, Haskell, HCI, Python (numpy & pandas)

Canberra, ACT

February 2019 – December 2021

Macquarie University

Bachelor of Applied Finance (Incomplete)

Macquarie, NSW

February 2016 – June 2018

St Mary's Cathedral College

High School Certificate

Sydney, NSW

Completed 2015

Professional Experience

Consultant, Data & Analytics

Ernst & Young Australia

Canberra, ACT

February 2022 – Present

- Working on key defence & national security account, providing reporting solutions using Power BI, SSAS, and IBM DataStage.
- Conducted research on new SOAP based cross domain solution within Department of Defence. Using SoapUI software and Groovy Script, developed a containerised mock SOAP service to be deployed to test automated solutions in relation to updating database tables on high side domain. Provided advice to engagement technical leads on the technical requirements of SOAP and architecture of end-to-end solution.
- Created custom git branching strategy (DualFlow) to support rapid release cycles in Department of Defence environment. Created effective communication for key stakeholders and broader engagement team to simplify complexities such as rebasing and gain buy in for new strategy. Currently undertaking research into serialisation of binary formats to support implementation of new strategy.
- Developed tool to sync release and code freeze dates from MS Projects to Azure DevOps, utilising VBA and OData service to automate process.

Statistical Analyst – APS6

Australian Bureau of Statistics

Canberra, ACT

January 2021 – December 2021

- Working in the systems and field teams on the Longitudinal Study of Australian Children, I contribute to the enumeration strategy, sample maintenance and development of survey instruments.
- Tools regularly used include SAS, SQL Developer and Power Query.
- Collaborated with managers outside of LSAC to design and implement tools for project under time pressure. Designed and presented remote training to over 25 individuals, leading to the success of the project.
- Developed complex Microsoft Excel spreadsheets using VBA and Power Query to automate manual processes in respondent engagement and tracking exercises, while providing more in-depth management information in real time.
- On LSAC Wave 9 COVID 2 survey, there were critical business problems around using survey officers based in Geelong call centre, had not been done before. Designed and developed workload allocation and appointment scheduling tools to be used daily by managers to distribute workload across 80+ survey officers. Overall survey response was 60% higher than previous year.
- Existing LSAC process to distribute e-gift cards as respondent incentives was complex, confusing, and slow. This resulted in respondents having long wait times to receive gifts, and a high cost in sending them. Rapidly developed tool to replace process and trained staff on it's use. Reduced time taken to send from 4-6 hours to under 5 minutes. Reduced time to receive from 1-2 weeks to 1-2 days post survey officer interaction.

Head Teacher

Code Camp Pty Ltd

Sydney, NSW/Canberra, ACT

December 2019 – August 2020

- Led and assisted in delivering holiday camps and after school lessons to children aged 7-12 years. Programming in JavaScript.

- Supervised children and ensured their wellbeing. Utilised problem-solving skills to adapt to different schools and miscellaneous situations with children.

Field Research Assistant

The Australian National University

Kosciuszko NP, NSW

December 2019

- Working in small teams conducted remote field work collecting stand level data on dieback in Kosciusko National Park with Dr Matthew Brookhouse. Transects were at times on steep terrain with dense understorey where telecommunications were not possible, and work was completed without supervision.

Restaurant Manager, and previous roles

Melrose United Franchise Group & McDonalds Australia

Sydney, NSW

March 2012 – July 2018

- Managed day to day operations, compliance and execution of business plan, with a team of 8 direct reports and over 100 staff members. Displayed consistent ability to problem solve day to day issues, as well as larger long-term challenges. Maintained effective relationships with all team members, contractors and other stakeholders, of diverse backgrounds.
- Increased revenue from \$4,731,298 to \$5,287,357 from 2017 to 2018 through focusing on improving restaurant processes to deliver a better customer experience, while also improving EBIDTA by 1.40%.
- Streamlined process for customer feedback from written procedure to electronic, reducing employees time searching, improving customer retention and limiting loss to company on repeat complainers.
- Transformed manual order taking for children's birthday parties into electronic process, improving the customer's experience and the operations during high volume periods.
- Managed all POS hardware and software in restaurant and conducted on-site installation, repairs and troubleshooting to minimise disruption to customers and cost to company.

Projects

Up Bank Power BI connector

github.com/nicholas-russell/upbank-powerbi

Power Query M

March 2022 - Present

- Developed custom Power BI connector to read and transform Up Bank's REST API to a user friendly format, allowing for easy custom visualisations of transaction and account data.

Electronic gaming machine risk in ACT

Undergraduate research with Dr Bruce Doran

ArcPy

July 2021 – November 2021

- Developed a spatial model for electronic gaming machine (EGM) risk in the ACT. A multi-factor weighted index was created for each venue using information from gaming regulator and the Google Places REST API.
- ArcPy was used to create a custom ArcGIS tool to create a gravity model, highlighting areas and venues of high risk. This was then combined with ABS SEIFA data to identify areas of high risk.

ANU Degree Planner

github.com/nicholas-russell/anudegreeapp

JS, PHP

November 2019 – January 2020

- A JavaScript application to assist ANU students plan their degree. Utilises browser local storage to reduce server bandwidth and improve speed.
- Developed scraper to retrieve course and plan requirements from the ANU and mark what is completed, allowing students to be confident they have met the requirements for their degree.
- Designed parser for academic records, allowing students to import their previous courses without any manual input.
- Developed recursive algorithm to determine what letter grades are required to reach a target GPA, instead of a nominal figure, giving students exact knowledge of what is required to reach their goal.

References

On request