Benjamin PARRY

Data Scientist

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ℹ Available at 5 weeks notice period with current employer

Summary Statement

With a strong analytical background from engineering, and having diverse career experience working in both public and private organisations in consulting, design and project management roles, I have a unique range of skills that I'll use to bring value to any company. From my first role working with data in France in agile project management involving database development, software design and analysis, I understood the potential data could offer. I have since completed a Graduate Diploma in Data Science and began working with systems, building risk categorisation and predictive models, and analysing and reporting on a wide range of data. My goal is to continue to develop the skills that will enable me to design the best solutions to difficult problems and discover meaningful insights that bring added value to an organisation.

⟲ CAREER SUMMARY

2018 - Present	**Information Analyst**, *University of the Sunshine Coast*
2016 - 2018	**Technical Officer (Asset Systems)**, *Noosa Council*
2012 - 2016	**IT Project Manager (Asset Management)**, *Soletanche-Freyssinet*
2010 - 2012	**Civil Engineer**, *Newton Denny Chapelle*
2007 - 2008	**Structural Engineer**, *GHD Engineering*
2006 - 2007	**Structural Engineer**, *Trackstar Alliance*

💼 PROFESSIONAL CAREER

Present
July 2018
	Information Analyst, UNIVERSITY OF THE SUNSHINE COAST, Sunshine Coast
	Australian University
	STRATEGIC INFORMATION AND ANALYSIS UNIT
	Responsible for the Student Load and Income Forecasting model, undertaking data analysis and reporting.
	  › Developing tools in Python, R and excel to manipulate, transform and analyse data.
	  › Preparation of income forecasts, tracking university performance and executive reporting.
	  › Preparation of submissions Australian Government for Commonwealth funding.
	  › Maintenance of interim data warehouse (MS Access) until it is fully replaced.
	  › Collaborating with Marketing teams to assess trends and build market intelligence
	  › Working closely with Data Warehouse team and help with functional requirements and UAT testing of new data warehouse elements.
	  › Requirements analysis and development to build PowerBI reports to respond to internal needs.
	Reason for leaving: returning to engineering
	`SQL` `Excel` `Python` `Power BI` `Forecasting` `MS Access`

July 2018
July 2016
	Technical Officer - Asset Systems, NOOSA COUNCIL, Noosa
	Local Council for the Noosa Shire
	ASSET MANAGEMENT TEAM
	Business Owner for Council's strategic asset management systems.
	  › Preparation of the Asset Information Management Strategy to structure data collection processes used in the organisation to collect consistent and valuable asset and works data, and integrate with other departments.
	  › Responsible for pavement survey data integration and pavement deterioration modelling in SMEC.
	  › Development and analysis of risk-based model of stormwater network pipe failure to help coordinate inspection campaigns.
	  › Importing and transformation of spatial data from new developments to visualise, locate, identify and categorise within the asset management system.
	  › Building confidence in asset management across the organisation by working with engaging all with all departments providing awareness sessions.
	  › Implemented disaster information collection process for the National Disaster Relief and Recovery Arrangements for disaster funding and presentation of process at Technology One Local Government conference.
	Reason for leaving: Seeking to solidify data science skills
	`Asset information` `R` `Python` `Excel` `QGIS` `Optimisation models` `Deterioration model` `SAM` `SMEC PMS` `MapInfo`

March 2016
October 2012

It Project Manager (Asset Management), VINCI SA- SOLETANCHE-FREYSSINET, Paris, France
Global construction with expertise in specialised building, civil, hydraulic, and electrical engineering
ADVITAM GROUP
Technical lead and project manager for international asset systems and solutions.

> Managing up to 5 projects following agile style methodology (Freyssinet PM+) for project life cycle.
> Administration of clients database: Building queries, stored procedures and functions to manipulate and use client data to meet their business requirements.
> Implementation of pavement deterioration modelling for highway concessions and pavement survey data management.
> Coordinating and building web applications using VB.net, MS SilverLight and HTML5 to connect to databases and structure client processes around asset management in Agile environment.
> Specification and delivery for structural monitoring data capture instruments and analysis of outputs.
> Undertaking analysis and building custom reporting in SSRS.
> Manipulation and transformation of spatial data using QGIS to visualise and locate client assets.
> Delivering presentations, and coordinating and leading training sessions with clients.
> Commercial representation at conferences, and preparation of offers and bid submissions.

Reason for leaving: Return to Australia

Project management | Aglie Projects | SQL | Data Analysis | SSRS | Deterioration model | Forecasting | VB.Net | GIS

October 2012
March 2010

Civil Engineer, NEWTON DENNY CHAPELLE, Lismore
Town Planning/Civil Engineering/Surveying consultancy for industrial, residential and commercial developments.
CIVIL ENGINEERING
Undertaking preliminary and detailed engineering analyses and designs and managing consulting projects.

> Stormwater modelling and design using MUSIC, CivilCAD and XP-RAFTS and preparation of design plans and documentation.
> Civil design including subdivisions, earthworks, pavement, stormwater and services.
> Preparation and submissions of technical reports to support development applications.
> Ensuring conformity with all relevant standards and regulations in design and supervision of construction quality.
> Negotiating development approval conditions and requirements on behalf of the client.

Reason for leaving: Downturn in available work

Civil design | Project management | Stormwater modelling | Pavement design | CivilCAD | MUSIC | XP-Rafts | Site Supervision

November 2008
December 2007

Structural Engineer, GHD ENGINEERING, Brisbane
Engineering company in water, energy and resources, environment, property and buildings, and transportation.
MINING & INDUSTRIAL STRUCTURES DEPARTMENT
Part-time - Undergraduate engineer modelling and preparing designs and project specifications.

> Engineering modelling and design using Space Gass and STRAND7.
> Preparation of technical specifications and project documentation and design criteria.

Reason for leaving: Completing studies overseas

Structural Engineering | STRAND | Space Gass

November 2007
July 2006

Civil/Structural Engineer, TRACKSTAR ALLIANCE, Brisbane
Alliance between Queensland Rail, Thiess, United Group, Connell Wagner and Maunsell AECOM to rail projects in SEQ.
CONNELL WAGNER
Part-time - work experience role preparing structural designs and rail alignments for a rail duplication project.

> Design of retaining walls, slabs and rail bridges and alignments
> Site Supervision during service location and site preparation

Reason for leaving: Gaining different experience

Structural Design | Site Supervision

🎓 EDUCATION

2016-2018	Graduate Diploma in Data Science (Accelerated), **Monash University**
2009	Exchange to **L'Institut National Polytechnique de Grenoble**, France, completing final project in the Laboratoire des Ecoulements Géophysiques et Industriels (LEGI).
2004-2009	Bachelor of Engineering (Civil)/Bachelor of Arts (Spanish, French) - first class honours, **University of Queensland**, St Lucia.

☰ SKILLS

Project Management Agile project management, trained in Freyssinet PM+ project management (PMBOK equivalent): commercial offers, negotiating contractual issues, planning, risks analysis, tracking project budgets, personnel and time management, quality management for IT software and solutions delivery. Led delivery of up to 5 simultaneous projects, up to €250,000 with profit margins of 30%.

Analytics Data capture, cleansing, integration and use through statistical analysis and visualisations to provide insights. Prototyping and development of tools in python and R to solve data challenges. Developed risk model for storm water pipe infrastructure based on environmental and land use factors, as well as physical characteristics of pipe to optimise inspection campaigns. Parametrisation and delivery of pavement deterioration models. Building data models in Excel and Power BI to track and analyse forecast against actuals.

Leadership Managing teams of up to 5 software developers, database designers, and electrical and instrumentation engineers, including remotely, to deliver work on time and to specifications. Successfully led change management including organisation wide asset management practices, implementation of supervision and reporting structures, and disaster management data collection processes to meet both internal and external requirements. Selected to represent Noosa Council at Local Government Management Associations Leadership Challenge in 2017.

Communication Successful work history with people from diverse disciplines and backgrounds in both national and international environments. Able to communicate ideas clearly and logically to ensure efficient teamwork. Part of a team that won the Vinci Innovation Prize for International Dissemination for software developed through collaboration with multiple clients

Reporting Financial and performance reporting to management and executives, preparation of project documentation for large-scale, international projects, preparation of project experience returns to ensure insights transferred to both management and peers. Development and implementatin of reporting dashboards and executive reports for clients. Presenting project updates and delivering training sessions to clients and their sub-contractors, with largest involving 100 sub-contractors

Engineering Delivering and implementing strategic and operational asset management solutions. Business process owner/system administrator in local council. Analysis of survey data, implementation and parametrisation of deterioration models. Preparation of asset inventory manuals, inspection and maintenance plans. Structural and civil design, including roads, stormwater, subdivisions, and retaining structures for development applications and detailed construction certificate plans.

Software
> **Programming languages** (R, Python, VB.net),
> **Enterprise systems** Microsoft SQL, Access, Office, Project, Excel, ERPs, Technology One
> **Engineering and CAD software** (SMEC PMS, ScanPrint IMS, Civil CAD, AutoCAD, SIDRA, MUSIC, XP-Rafts, STRAND7, Space Gass)
> **Web development** (Silverlight, HTML5),
> **GIS** (QGIS, ArcGIS)

🌐 LANGUAGES

English	●●●●●
French	●●●●○
Spanish	●●●○○

✚ OTHER INTERESTS

> Climbing, Running, Surfing, Lifesaving
> Travel, Languages
> Piano, Woodwork