J
REID

JUSTIN REID
FULL STACK DEVELOPER

CONTACT

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🏠 Adelaide, South Australia

EDUCATION

- Bachelor of IT
  RMIT / Currently Studying
- Certificate IV in Spatial Information System
  School of Military Engineering / 2002
- Certificate II & III in Geomatic Engineering
  School of Military Engineering / 2001 - 2003
- Combat Engineer Grade 1
  School of Military Engineering / 2001
- Combat Communications
  School of Military Engineering / 2001
- Global Positioning System Operator
  School of Artillery / 2000
- Advanced Driving Certificate
  Australian Army / 2006
- Certificate in Meteorology, Artillery Meteorologist
  School of Artillery / 1996
- Certificate in Surveying, Artillery Surveyor
  School of Artillery / 1996

PROFESSIONAL PROFILE

Full Stack Developer with a special interest in developing Backends. Enjoys identifying opportunities to reduce costs, increase efficiencies, and drive new ways of working. Recently completed a Certificate in Full Stack Web Development at Monash University whilst concurrently studying for bachelor of IT at RMIT with the goal being a successful transition from a very experienced career in the spatial industry, to a new career in web and software development. Demonstrated natural capabilities building websites, basic software, and micro-games. Exposed to Java, Python, Javascript, HTML, CSS. Advanced technical abilities with GIS, CAD, and surveying platforms. Proven track record managing technical projects by gathering requirements, preparing project plans, and delivering tailored solutions

ACADEMIC & IT RELATED EXPERIENCE

BACHELOR OF INFORMATION TECHNOLOGY

- Managed the entire software development lifecycle including developing a concept, building Bootstrapped frontend over a Django backend and deploying to PythonAnywhere using a PostgreSQL solution for the database
- Worked part of a team to design and build a darts team management web application
- Worked as part of a two-person team to design and build a discord chatbot game by utilising Python, AWS, PostgreSQL and Docker
- Created an Android budgeting interface using Figma while focusing on design principles and mockups
- Designing full safety prestart solution to be utilised in current workplace.

PROFESSIONAL DEVELOPMENT & FREELANCE PROJECTS

- Deployed a data collection solutions application to Android and IOS store
- Planned and deployed a podcast targeting technology topics
- Built out a website (*www.pod137.com*) which is running on Shopify
- Developed and managed content on a personal blog (*www.retropython.com*)
- Built a number of micro-games considered beginner level

PROFESSIONAL EXPERIENCE

SURVEY MANAGER
MPC Group / MPC Kinetic / 2015 – Present
Core Responsibilities;

- Plan, coordinate and manage the daily operations of the onsite Spatial Team
- Provide leadership to the team (>32) to ensure operational targets are met
- Build strong relationships with internal and external stakeholders
- Work with clients to gather their requirements and develop tailored solutions
- Contribute to the development and implementation of a portfolio of projects
- Manage the provision pf projects from concept to completion
- Optimise the utilisation of resources as per the project's requirements
- Drive continuous improvement initiatives to improve internal processes
- Roll out training to support teams and clients build their knowledge and skills

AWS EC2 | Docker | PostgreSQL
Python | Java | C# | Javascript
HTML | Shopify | Blender | IOS
Android | GitHub | Unity | Twilio
Django | Microsoft Office Suite
AutoCAD | Trimble Sketchup
BricSys CAD | QGIS | Grass GIS
FME | ArcGIS Pro | ArcGIS 9 -10.x
12D | Trimble | Terramodel | Leica
Wild | Trimble Business Centre

CORE COMPETENCIES

Software Development

Information Technology

Stakeholder Management

Cost Reduction

Project Management

Continuous Improvement

Team Leadership

Coaching & Training

Asset Management

Benefits Realisation

Requirement Gathering

Analysis & Reporting

EXPERIENCE *continued*

- Conduct research to identify suitable technologies for integration
- Complete trials on various unmanned aerial vehicles and technologies
- Utilise trial findings to determine project feasibility and future requirements
- Drive the execution of methods to resolve construction and design issues
- Ensure all activities comply with regulatory requirements and policies
- Prepare periodic reports for the management team and quantity surveyors

Key Achievements;
- Introduced new technologies which enabled data to be delivered to the team in a couple of hours compared to a whole day
- Due to the above, significantly decreased overhead costs by reducing the team size from 8 employees to 1 employee
- Created pipe quantity reporting scripts to allow accurate next-day reporting of pipe installed to date
- Successfully rolled out mobile devices such as iPads and iPhones which increased project communication and efficiencies
- Introduced a machine guided technology which reduced the traditional survey methods and increased safety and quality outcomes
- Built a digital library of 3D pipe components and technical information
- Created a training suite of new processes and technologies

SPATIAL LEAD
Murphy Pipe & Civil / 2014 - 2015
Core Responsibilities;
- Reported directly to the Spatial Manager as part of a team of three
- Led the team to survey approximately 125km of pipeline per month
- Drove the identification of continuous improvement opportunities
- Contributed to the delivery of projects through data collection and planning
- Revised dated data collection methods and proposed improvement solutions
- Facilitated onboarding and training of Spatial Personnel
- Worked with the team to perform bore calculations and design activities
- Led the maintenance and management of semi-permanent GPS infrastructure
- Played a key leadership role in identifying and addressing project risks
- Maintained respectful, clear two-way communication lines between teams
- Encouraged teams to investigate and address performance issues proactively
- Created and updated technical documentation as required

Key Achievements;
- Delivered savings of $1.2M per year by developing and implementing the direct-to-GIS process of surveyed as-built data on 300km per month pipeline construction project
- Developed test-pack software for extraction and preparation for pipeline information to maintain administrative and testing compliance
- Improved efficiencies by developing project-specific data quality assurance processes, which is still current to this date

SPATIAL LEAD
Georeid Pty Ltd / Feb 2010 – Jun 2014
Core Responsibilities;
- Carried out data analysis and processes raw survey data to GIS
- Developed and maintained attributed feature code list
- Demonstrated GIS capabilities and benefits to AutoCAD reliant staff
- Worked with clients to identify their requirements and develop a project plan
- Attracted the best surveying contractors to support project activities

EXPERIENCE *continued*

- Provided GIS and cartographic solutions for emergency management
- Prepared analysis, maps and figures into a comprehensive report
- Utilised a range of programs and software to assist with planning activities
- Created a relational database to be used for asset management of mine sites
- Supported the planning phase of a new mine site by providing survey support

Key Achievements;
- Developed internal mapping system overlaid on Google Earth to display open and closed traffic routers and safety incidents within the project
- Improved use of open space asset information by delivering custom relational geodatabase and data-dictionary
- Secured and managed contracts with;
    - Murphy Pipe & Civil
    - Fyfe Pty Ltd
    - Hume City Council
    - Horizon Mapping
    - Ironclad Mining Pty Ltd
    - Road Transport Authority NSW
    - Genesee Wyoming Australia

EARLIER EXPERIENCE

- Provided upon request