

Tyson Buzza

Place and Date of Birth: Narrogin, Western Australia | 23 January 1990

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Projects

- *basic-db* - A very simple database implemented in Rust for educational purposes [git](#)
- *stream_stats* - Concurrent calculation of count, mean and standard deviation [git](#)
- *utm_ex* - Convert coordinates between WGS84 and UTM in Elixir [docs](#)
- *simple_rabbitmq_consumer* - Simple Consumer for RabbitMQ messages [git docs](#)
- *azure_ad_openid* - Elixir client for Azure Active Directory using OpenID [docs](#)
- *mssql_ecto* - Updating the existing [mssql_ecto](#) repository to Ecto 3 [pull request](#)

Other contributions

- [eastar](#)
- [topo](#)
- [vuejs-datepicker](#)

Work Experience

Haultrax - Mining Consulting Services

2018-2020 Senior Software Engineer

- *FleetOps* Rewrite of the previous Web UI (Vue, Phoenix)
- *FleetControl* an application that allows dispatchers to allocate haul trucks to load and dump locations. Also allows haul truck operators to acknowledge the new allocation (Vue, Phoenix)
- *Driver Tree* a dynamic value driver tree that allows users to build the trees, input actual and target values or use automatically updating values based on a programmed (Vue, Phoenix)
- *Cycle Time Efficiency* tool for identifying problems in haul cycles by using GPS data to calculate variance in haul truck speed (Vue, Phoenix)
- Deployment with Docker, Azure, and Kubernetes

2017-2018 Software Engineer

- Maintaining and updating legacy code (C#, WPF)
- Implementing a new version of the Haultrax Productivity Solution (Python)
- Using GPS data to determine when a haul truck is loaded and emptied
- Using these load and dump events to determine the efficiency of the haul trucks, and the number of cycles completed in a day
- Web UI for displaying the resulting data (Polymer, Node/Express)
- Deployment on GE's Predix PaaS and a Microsoft server on the Telstra Cloud Infrastructure

Bonsai Branding - Branding and Design

2017 Programming Contractor

- CRUD application for managing catering and kitchen logistics for ingredients, recipes and products
- Phoenix backend
- React frontend
- Continuing an existing project after handover from another programmer
- Deployment on AWS
- Continuous Integration and Continuous Deployment using Buildkite

Great Southern Fuels - Fuel Distributor

2016-2017 Programming Contractor

- [CRUD Website design and implementation](#)
- Allows users to access their monthly Statements and Invoices
- Splitting large text files into separate customer Statements/Invoices
- Producing PDF files based on the extracted text
- CRUD application for managing fuel orders, jobs, the vehicle fleet, drivers, and customer tanks

Applus RTD - Non-Destructive Testing

2014-2015 Mechatronics Assistant

- Motor control software design and implementation
- System monitoring software, design and implementation
- Using RS232 to communicate with motor controllers and a laser range finder
- Soldering DB9 connectors
- Electrical design, drawing schematics and assembly
- Providing maintenance engineering support to the project/site to maintain and improve plant operations and profitability as directed by the client in accordance with the client site requirements
- Performing scheduled maintenance inspections and repairs
- Conducting training for Applus RTD personnel in the use of equipment
- Completing maintenance reports

Haefeli-Lysnar Surveying Equipment - Geospatial Solutions

2013 Junior Programmer

- Wrote a program for positioning drill rigs using GPS
- Developing mobile phone applications (Windows, Android, iPhone)
- Helped develop a total station program for positioning piles
- Research and development of coordinate system conversion libraries
- Receive NMEA strings from a GPS over a serial port using C#
- Discussing project requirements with clients, identifying requirements, managing expectations, adjusting to changing project requirements and acting on feedback from deliverables

Education & Training

Year	Qualification / Institution
2016	BCompSc (Distinction) Bachelor of Computer Science
	Charles Sturt University, New South Wales
	<i>Degree awarded on 9-Dec-2016 with Distinction (GPA 6.6)</i>
2013	BEng (Hons) Bachelor of Mechatronic Engineering
	Curtin University, Western Australia
	<i>Course completed on 20-Dec-2013 with Lower Second Class Honours.</i>
2012	Exchange Semester
	Technical University of Munich, Germany
2007	Australian Drivers Licence, Class C
	Department of Transport, Western Australia

Programming Skills

Languages Elixir, JavaScript, Java, C#, Rust, Python, Ruby, HTML, CSS, SQL

Frameworks Phoenix, Vue.js, React, Polymer, ASP.NET MVC, WPF

Deployment Kubernetes, Docker, Azure, AWS, TravisCI, Buildkite

Referees

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Great Southern Fuel Supplies

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