

JOSEPH GURR

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EDUCATION

University of Newcastle, Australia
B. Mathematics (Pure Mathematics)

2014-2019
GPA 6.96/7, WAM 91.39/100

WORK EXPERIENCE

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Data Scientist

January 2021 - present

Keeping our data services platform up to date (some infrastructure and some DBA) and ensuring the client facing component is a very pleasant experience. Developing the foundations of a modern optimisation framework for our customers. Other responsibilities include doing data analyses, and reporting in addition to more typical software engineering work.

Web Services Engineer

May 2020 - January 2021

Primarily a front-end role at a high growth startup. I was part of a team building highly performant web and mobile applications using Angular and Ionic. I worked closely with our back-end teams, designers, and external customers to deliver the best product.

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Junior Software Engineer

November 2018 - November 2019

An important team member on an ambitious green fields project developing an entirely new micro-service architecture for the back-end using AWS Lambdas with Typescript as the primary language. In addition to being a developer on this project I was responsible for creating a reproducible local development environment using AWS SAM Local. I was also involved in the front-end helping to implement a CMS for the operations team.

Business Analyst

November 2017 - November 2018

Responsible for evaluating the business's use of certain technologies and improving the efficiencies of such use as well as improving reporting flows. Technologies analysed include the Engineering team's proposed technology stack (moving from Symfony/KnockoutJS to Typescript Lambdas/NoSQL/Vue), and on the operations side their use of the DocuSign and Class (think Xero for SMSFs) software packages.

Actuarial Administrator

November 2016 - November 2017

Responsible for assessing the validity of crucial tax calculations for SMSFs. Ultimately responsible for refactoring the calculation algorithm due to legislative changes. This was done in Symfony (a PHP framework) and KnockoutJS.

Mathematics Undergraduate Summer Vacation Scholarship *November 2015 - January 2016*

Under the guidance of Associate Professor Michael Coons Jr. I worked to develop a greater understanding of linear representations of k -regular sequences and Stern's diatomic sequence.

Private tutoring

January 2012 - present

I have extensive experience tutoring year 11, 12, and first year university students in a range of subjects including mathematics, English, physics, chemistry, and statistics.

TECHNOLOGIES/PROGRAMMING LANGUAGES

Front-End HTML* (plus a variety of HTML templating languages like razor, blade, and jinja2), CSS* (SASS*, SCSS*), Javascript*/Typescript* (Angular*, Ionic*)

Back-End Python* (Django*, Flask), NodeJS*, Java

Data RDBMS (Postgres*, MySQL*, MariaDB, SQLite), NoSQL (DynamoDB*, MongoDB), Apache Druid*, Apache Superset*, Pandas*/Numpy*/other Python data packages*, R

Operating Systems Ubuntu* (16.04, 18.04*, 20.04*), MacOS X, Windows 10

Other git* (GitHub*, GitLab*, Bitbucket*), Docker*, AWS*, T_EX (L^AT_EX), Atlassian Suite* (JIRA*, Confluence*)

** means I have worked with this in a professional capacity in a non-trivial way*

Other technologies/programming languages I have used in a limited capacity include: Vue, React, LISP, PHP, C, C++, SPSS, MATLAB, Docker Swarm, and Kubernetes

ACHIEVEMENTS

Awarded the New Columbo Plan Mobility Scholarship to participate in the Reimagining India program	2018
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Placed on the Faculty of Science Commendation List	2015, 2016, 2018
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Awarded the School of Mathematics and Physical Sciences Vacation Scholarship	2015
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Awarded the University of Newcastle Undergraduate Scholarship Scheme	2015
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Awarded the Vice Chancellor's Scholarship for Academic Excellence in Year 12	2015
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