Yohan de Rose

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Work Experience

Languages	Python, Javascript, C/C++, HTML/CSS/SCSS, Dart, Scala, Kotlin, Golang, PHP, Java, SQL, R, Qml, Bash
Frameworks	Flutter, NodeJS, Expo, Flask, Django — Docker, Kubernetes, AWS, Azure — Numpy, Pandas, Scipy, TensorFlow
Low-Level	Linux, Mac, Windows, platformio, Raspberry Pi, Arduino, Espressif boards

Senior Software Engineer
Bangkok, Thailand
AGODA
September 2023 - present
- Collaborator on the design and direction of the new Trip product, in Kafka and KTor.
- Resolved critical backend Scala bugs and improved local testing with Docker Compose and Cucumber.
- Improved technical on-boarding by consolidating and documenting the complex process on Confluence.

Senior Software Consultant
Global
AAPSTAART
January 2022 - August 2023
- Building data pipelines, ML models, web apps, and automation tools for clients using Python, Pandas, Flutter and NodeJS.
- Debugged an interactive exhibit for a large Thai convention centre with Arduino, C++, Golang plus software and hardware testing tools.

Software Developer
Melbourne, Australia
MONASH UNIVERSITY
October 2019 - December 2021
- Led, architected and documented cross-team HTML, CSS, Javascript and Python web projects.
- Implemented testing, integration and deployment systems with Bash and Python scripting, git, Docker, GitHub Actions and Ansible.
- Developed Python packages, a Qt C++ GUI for geographical map processing and visualisation, and 3D geological and geophysical modelling.

Research Assistant
Dunedin, New Zealand
UNIVERSITY OF OTAGO
July 2018 – September 2019
- Researched and implemented a SLAM (simultaneous localisation and mapping) augmented reality system for live sports spectating.

Education

Monash University
Melbourne, Australia
BACHELOR OF SCIENCE (HONS) IN COMPUTER SCIENCE, GPA: 3.5/4.0
July 2020 - May 2021 (thesis pending)
- Researched geological systems as graph data structures and used graph machine learning to uncover ambiguous temporal relationships between adjacent stratigraphy and faults (2021) .

University of Otago
Dunedin, New Zealand
BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 8/9
December 2017 - October 2019
- **Coursework** — Core CS with Artificial Intelligence, Applied Mathematics, Web Development, Data Science and Distributed Computing.
- **Awards** — *Prime Minister Scholarship for Asia* – for an exchange at the National University of Singapore.

Projects

AnythingCanBreak ⚙
Bangkok, Thailand
ARDUINO | GOLANG
- Interactive art instalment at Queen Sirikit Exhibition Centre, Bangkok.
- Sensors arranged around the room feed data to a local network REST API, that plays different sounds depending on where observers are.

Dat3Bot ⚙ 📓
Bangkok, Thailand
SELENIUM | SCIKIT-LEARN
- Desktop application automating the use of popular dating apps like Tinder and Bumble.
- Machine learning models that use a) ratios between 3D facial key-points and b) OpenCV demographic models to reliably encode and predict attraction preferences. Cross validating over 98%.
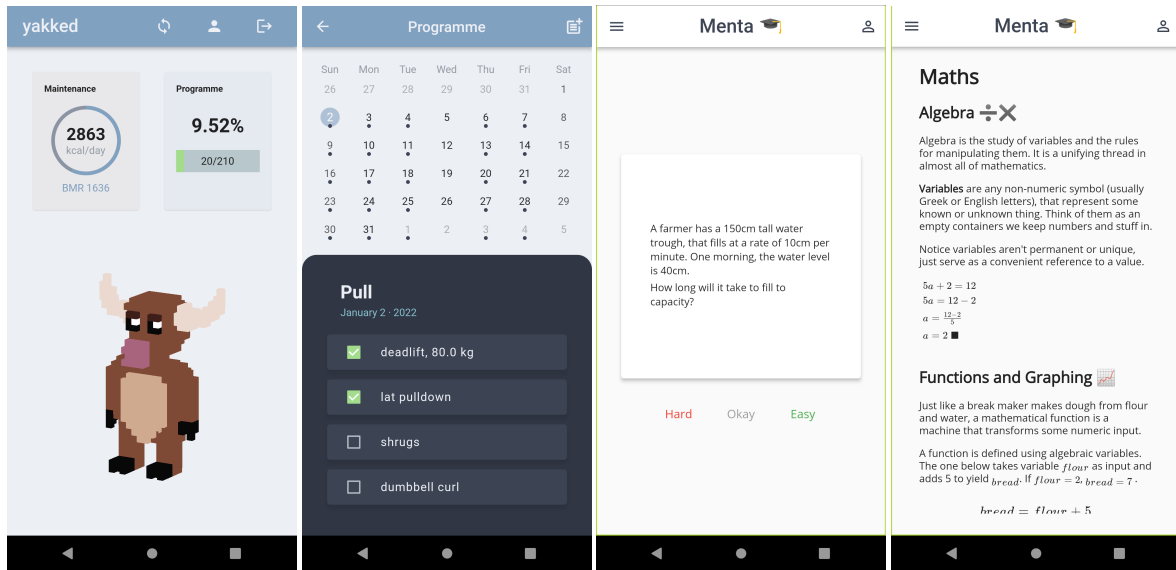
Portfolio

Figure 1: Flutter apps with Node and Golang backends

Figure 2: Queen Sirikit Convention Centre "AnythingCanBreak" exhibit