

Richard Pienaar

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Who Am I?

I'm a developer with a background in biology and a passion for full stack web development, image analysis and video processing. I have worked in both pure software engineering and bioinformatics, and I hope to prove to the world that even the most inhuman of processes can produce beautiful, abstract results. A comprehensive list of my current IT related projects is available on my website.

I thoroughly enjoy both exploring new technologies and facilitating the learning process of others; most of my roles have been in a variety of teaching fields. I've held positions teaching ESL overseas to companies (The Catalonian branch of Mercedes-Benz) as well as classrooms full of high school and university students. Software development is an ever expanding, relatively accessible field and I'd love to join a group with similar passion for both problem solving and education.

Experience

Beam Solar

Software Engineer

April 2022 - Present

- Full stack application management and development.
- DevOPS, backend (Clojure, Pedestal, PostgreSQL, AWS services), frontend (ReFrame + React).
- Contributing to a development team in a sprint based environment.
- Mentoring duties of up and coming developers.
- Continuous deployment / Integration (CI/CD) of a monolithic application.

Institute for Molecular Bioscience

Computational Research Assistant

July 2021 - Jan 2022

- Preparing and processing large scale data via high performance computing (HPC) clusters.
- Training and application of Weka machine learning models for 2D / 3D semantic image segmentation.
- Maintaining / contributing to an existing pipeline of java and shell scripts for robust analysis of lattice light sheet microscopy (LLSM) imaging.

Additional:

- Quadbike - Full Stack Developer (2020)
- Parlem Academia / BoxFish (2018) - ESL Teacher
- Clifton's (2021) - GAMSAT Supervisor
- The University Of Queensland (2020) - Academic Tutor

Education

Graduate Certificate - Bioinformatics

The University Of Queensland (2019)

Bachelor of Science

The University of Western Australia (2012-2015)

Trinity Cert TESOL

Oxford TEFL Barcelona (2018)

Proficiencies

Back end: Python (Flask, MoviePY, PyDub), Java, R, R Shiny, SQL, FFMPEG, Clojure, Leiningen, Pedestal, Pathom, PostgreSQL.

Front end: JavaScript / HTML / CSS & libraries (Tailwind, Bulma), Re-Frame / React, NPM, Clojurescript.

Other: Linux (Ubuntu) & Windows OS, Bash / Shell scripting, NGINX server config, Git + Github, Conda, Docker, Cloud computing (AWS EC2 / Cloudwatch / S3 / Cloudflare), Networking, CDNs, Firebase hosting, Firebase CLI, Stripe Integration, ClickUp, HubSpot, Xero, Circle CI, IntelliJ, Visual studio code, vim.

Other

Languages: English, Spanish (B1).

Music & Creative project: <https://linktr.ee/88756>

Referees

Available on request.