

EUGENE GOUWS

CONTACTS



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EDUCATION

- **Bachelor of Science**,
University of South Africa
Jan 2020 – Nov 2025
Graduated with Distinction in Mathematics, Applied Mathematics, Programming and Computer Science
- **MMus in Music Technology**,
University of Pretoria,
Jan 2014 – Nov 2017
Course work in Recording, mixing, mastering, Critical Listening, Music Business. Dissertation in film music.
- **BMus**, Stellenbosch University,
Jan 2007 – Dec 2011
Musicology, Singing, Choral Conducting, Music Technology

PROFESSIONAL SUMMARY

Mathematics and computer science graduate (BSc with Distinction, UNISA) transitioning into software development after a decade of teaching and five years in brand management. I build practical tools for real users: a timetable explorer deployed for my school, a recipe costing app with live pricing, and a C++/Qt timetabling engine using graph colouring and metaheuristic search. My strengths are analytical thinking and solutions engineering using whatever data and resources I have available to me. My background means I can also explain technical work clearly to non-technical people

PROJECTS

- **CVWeb portfolio**: HTML dashboard showcasing my other projects and my professional journey.
- **TimeView**: Interactive Highschool timetable (React, Cloudflare Workers.)
- **Kitchen Costing (Baker's Cost Pro)**: Recipe costing app with fuzzy ingredient matching (Jaccard trigram similarity) and a live Checkers price scraper via Apify. (React, Cloudflare Workers.)
- **Timetabling engine (in progress)**: School timetabling solver that builds the timetable with DSatur graph colouring, backtracking, hill climbing, and simulated annealing, then repairs conflicts with a bounded ejection-chain engine shared with a desktop editor. (C++, Qt. Python for conversion between xlsx accdb and JSON formats)
- **Exam scheduler**: exam timetabling via DSatur graph colouring and backtracking. (Python, KTinker.) Custom placement heuristic using shifting window convolution.

LINKS

<https://cvweb.egouws-music.workers.dev/>
<http://timeview.egouws-music.workers.dev/>
<https://kitchencosting.egouws-music.workers.dev>
<https://github.com/EugeneGouws>
<https://www.linkedin.com/in/eugenegouws>

SKILLS

- **Technical**: C++ (Qt), Python, JavaScript/React, Cloudflare Workers and Git. Numerical Methods, Algorithm Design and Optimisation.
- **Interpersonal**: Presentation, Performance, Audio/Visual production. English (Native), Afrikaans (Native).
- **Transport**: Valid Code B License and own vehicle.

WORK EXPERIENCE

Sep 2022 – Present

Mathematics and Music Teacher - Crawford International La Lucia, Durban

- Teach Mathematics using analytical, data-driven instruction to identify learning gaps and implement targeted interventions.
- Designed and built the school's music production studio (including acoustic treatment); train staff and learners in recording and mixing using Pro Tools.
- Design and manage audio-visual systems for concerts and events, including sound reinforcement, lighting, and livestreaming (OBS Studio).
- Lead Music curriculum development with integration of music technology; train teachers and present at national education conferences.
- Head of Music Department and Curriculum Leader for Performance and Visual Arts subjects.

Jan 2016 – Aug 2022

Mathematics and Music Teacher - Hudson Park High School, East London

- Taught Mathematics at Core and Advanced Programme (AP) level.
- Taught Creative Arts and Music, including vocal technique, ensemble skills, and foundational music literacy.
- Directed the school choir, preparing learners for concerts and school events.

Mar 2011 – Apr 2016

Brand Manager - SuperVet Southern Africa

- Managed product distribution and logistics, ensuring reliable stock supply and delivery.
- Promoted to Brand Manager, leading the Southern Africa sales team, overseeing training, performance, and client support.
- Developed sales strategies, managed promotional budgets, and led brand, marketing, and campaign development to grow market share.