

Julian Cangelosi

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EDUCATION

George Fox University

Bachelor of Science in Computer Science, Minor in Mathematics

Newberg, OR

May 2025

PROJECTS

Autonomous Vineyard Yield Prediction | *Git, Python, Linux, Raspberry Pi, computer vision*

- Currently collaborating with a team of five other computer science and engineering students.
- Designing, building, and testing a tractor-mounted device utilizing computer vision to capture vineyard images and analyze data to estimate the annual yield.

Generic Language Parser | *Golang, GoLand*

- Built a stack-based descent parser in Go to validate source code against EBNF grammar and token definitions.

Chess Game | *Python, Pycharm*

- Built a fully functional chess game in Python using object-oriented programming principles.
- Implemented game logic, including move validation, special moves (castling, en passant, pawn promotion), and check/checkmate detection.
- Developed an interactive GUI using tkinter to display the game state and handle player input.

Movies Relational Database | *PostgreSQL, Python, Visual Studio Code*

- Designed and implemented a relational database in PostgreSQL with 19 tables to store and query movie data, including over 12,000 movies, 6,000 actors, and 3,000 directors.
- Created an efficient ETL pipeline to populate the database using Python, dealing with inconsistencies, incomplete data, and complex relationships.

EXPERIENCE

Freelance Math Tutor

May 2023 – Present

Self-Employed

- Used Python to automate organizing files and generating worksheets tailored to each student's abilities and areas for improvement, increasing students' grades by up to 25 percent
- Exercised strong oral and written communication skills to clearly explain high school math concepts, provide detailed feedback, and maintain effective correspondence with students and parents.

Bell / Valet

Aug. 2023 – Present

The Allison Inn & Spa

Newberg, OR

- Responsible for parking guests' vehicles, providing facility tours to guests, and delivering amenities to rooms.
- Create and maintain daily spreadsheets with guest information to ensure exceptional customer service.

Mathematics Instructor

May 2022 – Aug 2023

Mathnasium

Sherwood, OR

- Assist K-12 students with math problems ranging from basic arithmetic up to calculus.

Digital Logic Design Teaching Assistant

Aug 2022 – Dec 2022

George Fox University

Newberg, OR

- Responsible for grading quizzes and homework, helping students with writing and troubleshooting verilog on FPGA boards in lab for the Digital Logic Design course.

TECHNICAL SKILLS

Python
scikit-learn
SQL

Excel
Java
GoLang

Git
Data Analysis
Machine Learning

Data Visualization
Database Management
Database Schema Design