Julian Cangelosi

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EDUCATION

George Fox University   Newberg, OR
Bachelor of Science in Computer Science, Minor in Mathematics   *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 recursive descent parser in Go to validate source code against custom 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
- Customer-facing role, responsible for parking guests' vehicles at a high end resort, providing room and 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

Languages: Python (proficient), Java, C/C++, PostgreSQL, Golang (familiar)
Developer Tools: Git, Visual Studio Code, PyCharm, IntelliJ, GoLand, CLion