

# 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, 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