# DENTON KUNZ

## Data Engineering, Computer Science, and Mathematics

I love tinkering and expanding my knowledge. I decided to become a data engineer to learn system design and grow proficiency with data tools. I pride myself on excellent communication and enjoy working with teams to break down problems.

I earned my Bachelor of Science in Computer Science (with Honors) from Oregon State University and am currently finishing the last term of my Master's degree in Data Science at Willamette University (Portland).

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## SKILLS

- Experience with Apache Airflow
  - I have written DAGs for snapshotting source databases (relational, NoSQL, and graphing such as Neo4j) into s3 buckets, warehouse management, and API access. I am obsessed with learning best practices (robust, scalable) whenever I can.
- Proficiency with Python, R, C, and more Programming Languages
  - 8+ years of programming experience. Python is my language of choice for data engineering and as an Undergraduate Learning Assistant at OSU, I taught Python to first-year engineering students. I have practiced R for statistics and data visualization throughout my time at Willamette University. However, C is my personal favorite. Despite its complexity, I find it easier to understand; Comparing C and Python for new learners was the subject of my OSU Honor's thesis.
- Familiarity with SQL
  - I've used SQL for years and am very comfortable with SELECT statements, JOINs, and aggregates. As I use it more often for data engineering, I'm growing more comfortable with window functions, common table expressions, and other more complex features. I'm learning new methods such as using LAG/LEAD to develop a hash-certified SCD (Slowly Changing Dimension) dimension table.
- Comfortability with CLI, CLI tools (BASH, SSH, VIM, etc.), and Linux environments
  - Daily practice using SSH and SSH tunnels for remote access to my data engineering projects for Willamette University. I have been delving deep into BASH scripting, reading the reference manual in my free time and having a blast creating custom tools. I also recently installed Debian to an old laptop have been developing my own home server for data engineering practice.
- Git Version Control and collaborating on large-scale projects
  - Git is almost second nature at this point; I use it everyday and have practiced it throughout my career. I'm comfortable using branches and was responsible for managing CI/CD for OSU projects.

## EXPERIENCE

**OSU Undergraduate Learning Assistant**
*Oregon State University, September 2021 to September 2023*

I have been a learning assistant for three different courses: ENGR 100, ENGR 102, and ENGR 103. I was responsible for coleading 2-hour studio sessions twice a week, grading, and holding office hours to further assist students. During studios, I worked to engage students and facilitate discussions. During office hours, I worked to create a welcoming environment where students could feel comfortable asking questions. Various topics were taught during these courses. In ENGR 103, we focused on learning Python.

**OSU Research Assistant**
*Oregon State University, November 2021 to September 2023*
I worked as a research assistant for a computer science professor at Oregon State. I was responsible for organizing and polishing transcripts from their in-field research that was conducted in earlier years.

**OSU Gaming Club**
*Oregon State University, September 2020 to June 2021*
I collaborated with the club president and officers to plan a gaming event centered around a mini-game that I developed and coded myself. I composed a comprehensive tutorial to outline rules and gameplay.

## PROJECTS

**Data Science Capstone**
My project partner and I scraped Trimet data for both the schedule and usage of particular stops and routes. This data was polished, normalized, and populated into a Postgres database running on my home network. We performed statistical and machine learning analysis processes to predict usage as a result of other features.
**Adv. Data Engineering**
In order to best prepare us for data engineering in industry, our professor set up a Postgres, MongoDB, and Neo4j source database, MinIO bucket, Grafana dashboard, and more on his home network for us to SSH into. Twice throughout the term, he would rotate the projects and each team would get a new one. This required us to write documentation for our own projects and read documentation to learn the new.

## EDUCATION

- **Willamette University** - *Portland, OR* - (Expected graduation August 2025)
  - GPA: 4.0 *Master's Data Science Program*

- **Oregon State Honors College** - *Corvallis, OR* - (Graduated June 2024)
  - Major GPA: 3.89, Overall GPA: 3.90
  - Computer Science Major, Mathematics Minor
  - *Awards & Honors:*
    - *Dean's list*
    - *Finley Academic Excellence Scholarship*
    - *Edward Ammer Jr. Eng. Scholarship*
  - *Extracurricular Activities:*
    - OSU Gaming Club
    - OSU ACM Club

- **Century High School** - *Hillsboro, Oregon* - (Graduated June 2020)
  - GPA (Weighted): 4.11 *High School Honors Diploma*
  - *Awards & Honors:*
  - OGPC "Best in Show" Award
    - National Honors Society
    - Advanced Tech Lab Dept. Award
  - *Extracurricular Activities:*
    - Video Game Design Club
    - National Honors Society