

# TALMAGE GAISFORD

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## EDUCATION

**Utah Valley University** - Orem, UT

Master of Computer Science

Artificial Intelligence Certificate

Expected May 2027

April 2026

**University of Utah** - Salt Lake City, UT

Bachelor of Science in Chemical Engineering

May 2024

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## WORK EXPERIENCE

**Process Engineer, Water Works Engineers**, Lehi, UT

January 2024 to January 2025

- Collaborated on design and construction of municipal water treatment facilities
- Identified and resolved equipment specification discrepancies in contractor submittals
- Authored operations and maintenance manuals for plant operators post-construction

**Student Lab Manager, University of Utah**, Salt Lake City, UT

April 2022 to May 2024

- Designed and programmed process control experiments utilizing PID controllers
- Modeled and fabricated replacement lab components using 3D printing
- Maintained software and hardware for lab devices including a laser cutter, SEM, PCB engraver, and CNC

**Software Quality Assurance, FSLogix**, American Fork, UT

October 2017 to May 2018

- Tested and analyzed software products to identify and reproduce errors
  - Documented defects with clear reproduction steps for engineering review
  - Collaborated with developers to improve performance and usability
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## PROJECTS

**iOS Applications**

2024 to 2026

- Built and published Pratos, an IOS app to track and visualize weightlifting progress across multiple exercises
- Developed additional SwiftUI applications including Julienne, ClueSolver, and Grandstepper

**Provo WWPT**

2025

- Participated in design and construction inspections for the new Provo water treatment facility
- Coordinated with engineers, contractors, and local government during final construction phases

**Python Air Quality Sensor**

2024

- Designed and built an air quality sensor module for deployment on the Wind River Reservation in Wyoming
  - Integrated multiple CircuitPython sensors to measure CO<sub>2</sub>, VOCs, PM2.5, temperature, and humidity
  - Created custom hardware and housing for field durability and programmed data collection in Python
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## EXTRACURRICULAR

**Wildland Firefighter, Outback Firefighting**, Springville, UT

April 2020 to August 2021

**County Delegate**, Orem, UT

March 2026 to present

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## SKILLS

Proficiencies: Python, Swift, SwiftUI, Arduino, Fusion360, AutoCAD, Benchtop instrumentation

Experience: Java, x86 Assembly, C, MySQL, Hadoop, MongoDB, Hive, Eagle

Interests: Skiing, Fiction Novels, Piano, Climbing, Hiking, Smoking Meats, Environmental Protection