

Paxton Jones

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EDUCATION

Willamette University | Salem, Oregon | Expected Graduation: August 2025
Master of Science in Data Science

Willamette University | Salem, Oregon | Graduated in May 2025
Bachelor of Arts in Data Science and Economics

Scots College | Wellington, New Zealand | Graduated: December 2020
International Baccalaureate Diploma

SKILLS

Technical Skills:

- Proficient in R, SQL, and basic Excel and Python • Experience with Apache Airflow and creation of data pipeline architecture • Statistical analysis, data visualization, survey design and sampling methodology
- Research design, weighted sampling techniques, confidence interval analysis
- Google Forms for survey data collection

Languages: • English (native), Spanish (conversational)

EXPERIENCE

Data Engineer, Prague Metro System Analytics Project

- Willamette University Advanced Data Engineering Course** | Salem, Oregon | May 2025 – Present
- Designed and implemented end-to-end data pipeline using Apache Airflow for Prague metro system simulation data, processing daily snapshots of stations, routes, passengers, and tap-in/out events
 - Built dimensional data warehouse using PostgreSQL with fact and dimension tables to support business analytics, optimizing for hourly ridership analysis across 4 metro lines (A, B, C, D)
 - Orchestrated Docker-based infrastructure including PostgreSQL warehouse, MinIO S3 storage, and Grafana dashboards for real-time metro operations monitoring
 - Collaborated in rotating team structure to inherit, document, and enhance existing data pipelines, ensuring seamless knowledge transfer and system continuity
 - Developed comprehensive documentation covering data lineage, architectural decisions, and pipeline workflows to support future team rotations and system maintenance

Co-Author, GenAI in Education Research Study

Willamette University School of Computer and Information Sciences | Salem, Oregon | February 2025 – May 2025

- Co-authored comprehensive research study examining student perceptions of generative AI in educational settings with 3 team members
- Designed and implemented 15-question survey using Google Forms, collecting data from 53 Willamette University students across multiple academic disciplines
- Conducted statistical analysis and data visualization using weighted sampling techniques to ensure representative findings
- Applied ethical research practices including informed consent protocols and participant anonymity safeguards
- Collaborated with Professor Agbo on AI in education research, contributing to broader institutional understanding of technology integration

Maintenance Team Member (Greenkeeping)

Creekside Golf Club | Salem, Oregon | May 2023 – August 2023

- Maintained 18-hole golf course grounds using specialized landscaping equipment to ensure optimal playing conditions for 500+ daily members
- Collaborated with 8-person maintenance team to prepare course for 12 tournaments, resulting in zero weather-related event cancellations
- Operated irrigation systems and turf management equipment to maintain USGA-standard course conditions throughout peak season
- Implemented daily quality control inspections that improved course ratings by maintaining consistent playing surface standards

International Volunteer

Sustainable Housing Project | Ticonata Island, Peru | November 2018 – December 2018

- Constructed sustainable housing units for 25 indigenous families using eco-friendly building materials and techniques
 - Collaborated with local community leaders to assess housing needs and prioritize construction projects
 - Coordinated with international volunteer team of 20 members to complete 5 housing units within 6-week timeframe
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