

Danty Cook

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Professional Summary

Early-career data professional completing a B.S. in Data Analytics (Nov 2025) and pursuing a career in Data Engineering. Skilled in SQL, Python, and developing ETL/ELT pipelines through academic and applied projects, with experience in data cleaning, manipulation, modeling, and validation. Familiar with industry practices in data warehousing, cloud platforms, MLOps, and data governance. Holder of the CompTIA Data+ certification, underscoring validated analytical expertise. Recognized for problem-solving, attention to detail, and collaborative leadership, with a long-term goal of contributing to the design, optimization, and scaling of enterprise data infrastructure.

Technical Skills & Core Competencies:

Core Competencies

Data Engineering (ETL/ELT, Data Warehousing, Governance) | Pipeline Automation | Data Quality & Validation | SQL & Database Management | Cloud Platforms (AWS, Azure) | Collaboration & Communication

Technical Skills:

Data Engineering: SQL, ETL/ELT pipelines, Data Warehousing, Data Modeling (star schemas, normalization), Data Quality & Validation, File I/O

Data Wrangling & Visualization: Pandas, Seaborn, Matplotlib, Jupyter, Power BI, Tableau, Web Scraping & API Integration

Databases: PostgreSQL, MySQL, SQLite, Microsoft Access | *Working Knowledge:* Cassandra

Programming & Scripting: Python, R, C++ | *Exposure:* Java, JavaScript, PHP, HTML5/CSS3, Apps Script, Automation (Scripting & Workflow Optimization), CI/CD

MLOps & Machine Learning (Academic Exposure): MLflow, FastAPI, Kafka, Docker, GitHub Actions, DVC, scikit-learn (Supervised/Unsupervised ML, PCA, Clustering)

Cloud & Enterprise Platforms: Google Cloud, AWS, Azure, Databricks, SharePoint (introductory experience)

Systems & Tools: Git/GitHub, Microsoft Office Suite (Excel, Access, Word, PowerPoint, Outlook), Google Workspace, PowerShell, Shell, Linux, macOS, Windows, Android, ITIL practices

Relevant Projects

Data Wrangling & ETL Pipeline — Academic Project

Built a Python-based ETL pipeline (Pandas + SQL) to ingest datasets from web automation, APIs, and HTTP requests. Automated validation, transformation, and storage with helper libraries, ensuring reproducibility, data quality, and scalability for downstream analytics.

Customer Personalization Data Pipeline — Academic Project

Developed a PostgreSQL pipeline to generate customer recommendations, popularity scores, and maintenance metrics. Leveraged advanced SQL (joins, window functions, materialized views) with automated data quality checks to produce reliable, marketing-ready outputs.

Automated Data Pipeline with Python & Cassandra — Academic Project

Engineered an automated Python ETL workflow to ingest and transform JSON logs. Implemented custom Cassandra queries (CQL) to build denormalized tables optimized for fast lookups, improving reliability and query performance for reporting.

Flight Delays & Cancellations — Excel & Tableau BI Project

Built an Excel-to-Tableau BI workflow combining Power Query transformations, lookup formulas (VLOOKUP/XLOOKUP), and dashboard design. Created interactive Tableau dashboards analyzing airline performance, seasonal trends, and delay causes, providing actionable insights for operational decision-making.

End-to-End ML Pipeline — Rental Price Prediction (Academic Project)

Implemented a production-grade ML pipeline for rental price prediction with automated ingestion, cleaning, validation, and Random Forest training. Integrated Hydra for hyperparameter tuning and tracked results in W&B/MLflow, enabling reproducible experiments and scalable deployment.

Scalable ML Pipeline Deployment — FastAPI & CI/CD (Academic Project)

Deployed a machine learning pipeline with automated testing and CI/CD workflows (PyTest, GitHub Actions). Exposed the trained model through a FastAPI REST API for programmatic inference, ensuring consistent, reliable, and transparent model delivery.

A/B Testing & Statistical Analysis — Academic Project

Evaluated a landing page experiment using A/B testing, hypothesis testing, and logistic regression, delivering insights on conversion significance.

Customer Segmentation with PCA & KMeans — Capstone Project

Built an unsupervised ML pipeline with PCA + KMeans and automated workflows to uncover distinct customer segments for data-driven marketing.

Education

B.S., Data Analytics — Western Governors University (Graduating Nov 2025)

A.A., Business Administration (Information Systems) — American InterContinental University, 2009 — Graduated with Honors (GPA 3.91)

Certifications

CompTIA: Data+, A+, Network+, Project+, IT Operations Specialist

Axelos: ITIL v4

WGU: Data Analytics Practitioner (in progress), Data Engineering Practitioner (in progress)

Awards & Honors

Recognized with multiple Excellence Awards for academic performance, a rare distinction within the program.

Accepted into the *National Society of Leadership and Success (NSLS)* for demonstrated leadership and academic distinction.

Professional Experience

Assistant Property Manager (Part-Time)

Chen Rentals | Apr 2021 – Present

- Manage day-to-day operations including resident communications, rent collection, and maintenance scheduling.
- Handle lease agreements, renewals, and eviction processes in compliance with policies and regulations.
- Coordinate vendor and contractor services to ensure timely completion of maintenance requests.
- Provide excellent customer service, resolving tenant concerns promptly to maintain positive relationships.

Independent Student & Household Operations

Self-Employed | Apr 2021 – Present

- Manage household operations including scheduling, budgeting, and logistics.
- Provide tutoring and educational support across multiple subjects.
- Developed organizational, time management, and multitasking skills while pursuing a Bachelor's degree in Data Analytics.
- Applied technology tools to coordinate schedules and improve household efficiency.

Medical Transcriptionist & On-Site IT Lead

Pulmonary and Sleep Consultants | Feb 2017 – Apr 2021

- Transcribed medical reports with a high degree of accuracy, ensuring timely updates to electronic health records in compliance with HIPAA.
- Created custom templates and audit reports that improved documentation consistency and reduced turnaround time.
- Conducted insurance compliance reviews that identified and corrected recurring billing and documentation issues.
- Provided reliable on-site IT support, improving system stability and user satisfaction through consistent troubleshooting of hardware, software, and networking issues.
- Installed and maintained IoT devices and VoIP systems, improving the reliability of office communications.
- Coordinated with external vendors and service providers to ensure timely resolution of escalated IT issues.

Data Entry Specialist

Urgent Family Care | Jul 2016 – Feb 2017

- Entered patient billing and insurance data with a high level of accuracy, ensuring smooth claims processing.
- Verified patient demographics and coding details to reduce billing discrepancies.
- Maintained confidentiality and compliance with HIPAA requirements in all data entry tasks.

IT Technician – Entry Level

Innovative Consulting Group | Apr 2016 – Jul 2016

- Served as the first point of contact for technical support, resolving a steady flow of user issues via phone, email, and/or on-site client support.
- Improved record-keeping accuracy by standardizing event logging and customer updates in ticketing systems.
- Performed daily server audits to confirm error-free system startups and uninterrupted operations, ensuring 99.99% uptime.
- Configured and deployed PCs, servers, and network devices, ensuring continuous operational efficiency of client systems.
- Suggested workflow improvements that reduced unnecessary escalations and streamlined team efficiency.

Technical Support, Developer Support & Leadership Roles

Sitel / Teleperformance — Knoxville, TN | Jul 2007 – Dec 2015

Progressed from Tier 1 Technical Support to Tier 3 Lead and Developer Support across multiple client programs (HTC & Helio).

- Delivered customer support and technical troubleshooting across mobile devices, SDKs, drivers, and software integrations, advancing from entry-level to senior technical lead roles.
- Resolved Priority 1–3 escalations, performed trend analysis, and provided actionable reporting for senior leadership.

- Led beta user trials for HTC hardware/software, acting as liaison with R&D teams and coordinating feedback loops to improve product performance.
- Developed a productivity reporting system in Excel using automated cleaning, lookups, and cross-system data extraction to generate weekly KPI dashboards for Tier 2/3 leadership across multiple sites, streamlining reporting workflows and improving visibility into performance metrics.
- Designed and maintained a Microsoft Access database to centralize daily CRM data, enabling near-real-time reporting and deep-dive analysis of call center metrics (e.g., device/carrier combinations, disposition codes, issue keywords), automating manual processes and accelerating root cause analysis.
- Authored internal knowledge base documentation and trained staff across U.S. and international teams, improving consistency and resolution accuracy.
- Promoted to Team Lead, managing operations, delegating assignments, mentoring staff, and assisting with transition of support operations during program closure.

This long-term exposure to technical support and developer environments sparked my interest in data analytics and process improvement—ultimately evolving into a strong motivation to pursue data engineering, where I can build systems that drive better decisions and scalable insights