

Cortland Nelson

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SUMMARY

I'm a recent computer science graduate with over two years of hands-on experience in data-driven projects and IT infrastructure. Skilled in Python, SQL, and Azure, with a strong foundation in network administration, system troubleshooting, and cloud technologies. My past roles and formal education have given me the ability to model and automate workflows, optimize data pipelines, and manage relational databases for scalable solutions. I focus on writing clean code, collaborating with others, and finding creative solutions, whether in engineering or analytics.

EDUCATION

- University of Tampa, Tampa Bay August 2021 - December 2024
 - B.S. in Computer Science || GPA: 3.66/4.0
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SKILLS

- Programming & Scripting: Python, JavaScript, SQL
 - Cloud & Infrastructure: Microsoft Azure, AWS, Azure Databricks, Snowflake, Docker, Terraform (Infrastructure as Code), Azure Monitor
 - DevOps & Automation: Azure DevOps (CI/CD), Git & version control, workflow automation, Airflow, infrastructure provisioning
 - Data Engineering & ETL: ETL pipeline design, PySpark, Palantir Foundry (DEEP), PostgreSQL, Teradata, relational database modeling, data validation
 - Security & Compliance: Identity & Access Management (Azure AD), Role-Based Access Control (RBAC), NIST-aligned practices, vulnerability assessments, secure secrets management
 - Monitoring & Reliability: Application monitoring, logging and error handling, incident response, root cause analysis, system performance optimization
 - Frameworks & Development: React, Express, Flask, Redux
 - Analytics & Visualization: Power BI, Tableau, Microsoft Excel
 - IT Service Management: Incident management, change management, problem management, service-level awareness, ITIL Foundation (In Progress)
 - Professional Skills: Agile/Scrum, cross-functional collaboration, technical documentation, stakeholder communication, process improvement, mentorship
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Work Experience

- AT&T, Collections and Data Science Intern May 2024 - August 2024
 - Contributed to agile sprint goals by owning end-to-end migration workflows, migrating 400GB of datasets from Palantir Foundry to Snowflake and designing scalable, fault-tolerant ETL pipelines using Python and SQL for data transformation and integration.
 - Owned end-to-end data pipeline development, automating ingestion and transformation workflows using PySpark on Azure Databricks, reducing manual efforts by 10 hours per week while improving reliability and performance.
 - Collaborated with stakeholders to translate business and inventory requirements into technical solutions, modeling data for analytical consumers and eliminating 15% data redundancies through resilient, scalable schemas.
 - Wrote clean, maintainable, and testable code for automation and data flows, implementing automated validation and monitoring while applying object-oriented design principles and core data structures.
 - Designed and delivered Power BI dashboards and presented technical insights to senior leadership, driving 8 hours/week in efficiency gains and 6% annual cost savings.
 - PwC, Consulting Intern May 2023 - August 2023
 - Analyzed ESG data from 150 organizations, querying, transforming, and validating unstructured datasets to design coherent, scalable data models for stakeholder reporting and regulatory insight.
 - Collaborated with cross-functional stakeholders to translate business objectives into technical analyses, benchmarking best practices using SQL and Excel to support scalable recommendations for The Education Trust.
 - Developed and delivered executive-level presentations on actionable insights, aligning technical findings with industry trends and business strategy.
 - Universal Data Inc., DevOps Intern May 2021 - August 2022
 - Collaborated with senior engineers to support cloud migrations and infrastructure modernization, improving performance, scalability, and security for 200+ users across client environments.
 - Managed identity and access control by administering Azure Active Directory, enforcing least-privilege access and NIST-aligned security practices.
 - Assisted in application deployments and cloud monitoring in Azure, contributing to a 22% improvement in system reliability and reducing downtime by 12 hours per month through proactive issue resolution.
 - Conducted vulnerability assessments and implemented security best practices, serving as a first line of defense for client infrastructure.
 - Provided first-level technical support, resolving an average of 20+ tickets per week, documenting solutions via CRM, and maintaining a 92% customer satisfaction rate.
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HONORS AND AWARDS

- University of Tampa: Honors Program August 2022 - December 2024
 - Honors Program students thrive in a close-knit atmosphere among the most inquisitive, intellectually spirited, and enterprising students. They enjoy specialized classes on stimulating topics, attend symposia, conduct original scholarship for the Honors Thesis, and participate in state, regional, and national honors conferences.