Ryan O'Connor

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👤 | Summary

Resourceful and detail-oriented professional transitioning from a career in skilled trades to the technology sector. Combines hands-on experience in asset coordination, vendor management, and operational leadership with a strong foundation in computer science and software development. Proven ability to apply systems thinking and technical skills to support IT operations, full-stack development, and data-driven projects. Currently pursuing a B.A. in Computer Science with a focus on building scalable tools and managing real-world infrastructure. Seeking a role in *[target field]* where technical aptitude and field-tested problem solving intersect.

🎓 | Education

2022–2025 — **Bachelor of Arts in Computer Science**, *Hunter College*, NYC, Aug. 2025 Completion
  Relevant Coursework: Data Structures and Algorithms, Machine Learning, Computer Architecture, Data Mining, Discrete Structures, Symbolic Logic

2015–2017 — **Bachelor of Science in Labor Studies**, *Empire State College*, NYC, May 2017 Graduation
  Relevant Coursework: Project Management, Project Estimation, Economics of Construction

♟ | Skills

Programming	C++, Python, JavaScript, TypeScript, Bash, LaTeX
Web Stack	React, Firebase, BootstrapCSS, REST APIs
Tools	Git, GitHub, Jupyter Notebooks, VSCode, TeXStudio, Unraid, Anaconda, GIMP
Platforms	Linux/Ubuntu, Windows
Operations	Manual ticketing workflows, inventory tracking, vendor coordination, SOP documentation
Soft Skills	Leadership, Communication, Attention to Detail, Problem Solving, Team Collaboration

🖥 | Technical Projects

⚛ React

Summer 2025 — **AllCards – Web App**, *Team of 4*, Capstone
A full-stack web application for organizing and browsing physical trading card collections across franchises.
  Technologies: React, TypeScript, Firebase (Authentication and Firestore), BootstrapCSS

- Built responsive UI with modular React components and dynamic routing
- Integrated Firebase Authentication for user registration, login, and session management
- Structured Firestore database to support nested user, franchise, and card collection data
- Queried external APIs (Pokémon, Magic, Yu-Gi-Oh!) to fetch and normalize card information
- Designed architecture to support future expansion of features and franchises

ⓒ C++

Spring 2025 — **SimOS: Process & Memory Manager**, *Individual Project*
An OS simulation through a simplified OS kernel.
It simulates process scheduling, memory allocation, and disk I/O handling.
Details:

- Designed and implemented a priority-based preemptive CPU scheduler with randomized tie-breaking for equal-priority processes
- Implemented worst-fit memory allocation strategy with recursive cleanup of zombie processes and their descendants
- Simulated FCFS (First-Come-First-Serve) disk I/O request queue with realistic process blocking and unblocking
- Managed process creation (fork), waiting, and cascading termination using a dynamic PCB table and child tracking
- Used basic containers only (e.g., vectors and arrays); no maps or advanced STL structures
- Core logic based on textbook chapters 1–10, prioritizing clarity and correctness over performance

🐍 Python

NBA Awards Predictor – Data Mining, *Team of 5*

Fall 2024

A machine learning pipeline that predicts NBA award winners using historical player and team statistics.
  Technologies   Python, pandas, scikit-learn, numpy, matplotlib, BRScraper

- Scraped and cleaned historical data from BasketballReference using BRScraper API
- Engineered features like win shares, usage rates, and adjusted scoring metrics
- Trained logistic regression, random forest, and ensemble models with cross-validation
- Visualized model performance and insights using matplotlib and seaborn
- Managed full data pipeline collaboratively with Git and Jupyter Notebooks

⬤ Unraid – 🐧 Linux

Home Media Server, *Individual Project*

Apr 2022–pres.

A personal home media server operating on an Unraid Virtual Machine and Ubuntu Linux.

- Designed and implemented a home server using Unraid and Ubuntu Linux; selected hardware components and managed full lifecycle from procurement to retirement
- Performed system design, device testing, and OS installation (Windows/Linux) tailored to functional requirements
- Conducted ongoing inventory tracking and upgrades for multiple compute devices, ensuring long-term system integrity
  and storage optimization
- Implemented secure access protocols and planned future expansion for VPN and file/document lifecycle support

🏢 | Relevant Experience

Journeyman

Electrician, *Local Union #3 IBEW*, NYC

2015–2022

Provided electrical and fiber-optic installations, maintenance, and repairs.

- Supervised warehouse and jobsite operations including hardware receiving, inventory tracking, and asset staging for deployment
- Managed jobsite requests through physical ticketing logs, asset request forms, and spreadsheet-based inventory tracking
- Coordinated with vendors and procurement teams to order, receive, and deploy job-critical IT hardware and materials
- Maintained detailed logs for audit compliance, asset delivery timelines, and return workflows across multiple locations
- Trained and led apprentices on SOPs involving equipment tracking, lifecycle usage, and safe storage procedures
- Interfaced with clients and stakeholders to report inventory status, resolve discrepancies, and ensure compliance with safety protocols

🪪 | Certifications

- NYS DOL – Certificate of Completion for Apprenticeship Training
- OSHA 10
- OSHA 30
- Site Safety Training

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Company Recruitment team   July 05, 2025
St. Luke's Health System
720 East Park Boulevard
Boise, ID

Systems Analyst 1

Dear Hiring Team,

I am writing to express my interest in the System Analyst 1 position. As a graduating student in Computer Science this August, and with a background as a Journeyman Electrician, I am confident that my skills, dedication and talents will benefit your clients, company, and organizaitonal needs. Upon reviewing the job description, I believe that my experience and transferrable skills will make me a great fit for this role. I am currently located in Bronxville, NY with plans to relocate to Boise, ID no later than the end of August 2025.
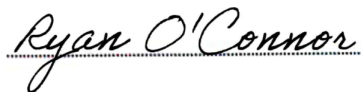
I have several years of experience with asset and iventory management. My experience as a supervisor when I was a Journeyman Electrician required the management of assets and inventory across the lifecycle of a job to provide efficient and proficient production to successfully complete the job.

I was also required to procure, sort, and store items as they were needed on a jobsite. With these responsibilities I was also required to make the calls and orders for the assets and inventory when they were needed for each project. As a Journeyman I had also at times worked in Warehouses and Rail Yards. During my time working at these locations, I was in charge of preparing assets and inventory to be processed and sent out to locations that required these items, as well I was warehousing these assets as they came in to the Warehouse or Rail Yard. Experience in enforcing (company, city, and state) codes, policies, and procedures to ensure both safety and compliance so that projects are completed on time and within regulations. My experience proves great understanding of what is needed for hardware procurement, warehousing, depot processing, audit compliance, and vendor coordination.

I have built several computers for myself, family and friends over the years. With spare parts, and new, I built and designed a personal media server to act as a personal cloud service for myself. Software and hardware testing regularly for the proper care of this system, along with the other computers, is required to establish a long life cycle and security of the files and the device itself. Having built a simulated Operating System program gave me further insight to the operations and procedures of the inner workings of computers. Building devices requires system design and implementation of knowledge and understanding of the intended usage for each. Selecting the Operating System for these devices, e.g. Windows or Linux, further expands on the intended use and lifecycle of these devices. Knowing what you designed and built requires the proper support to keep systems health and lifecycle strong.

I look forward to hearing from you at your earliest convenience to discuss how my experience and qualifications will prove valuable in your company. Thank you for your time and consideration. You can reach me by either phone or email.

Sincerely,

Ryan O'Connor

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