

Collin Hansen

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A results-driven computer scientist with a passion for solving great problems, dedicated to innovative designs and effective implementation.

EXPERIENCE

LP Building Solutions - Trucker Strapper Grader

(New Limerick, ME)

JUN 2024 - present

- ❖ Supporting LP Building Solutions operations by continuously studying and obtaining practical expertise pertaining to the maintenance and diagnosis of more than 100 integrated robotics and automation systems across the finishing-end production line.
- Securing and stabilizing loads, grading products for quality, operating material-handling equipment, maintaining records and forms, enforcing quality control standards, ensuring compliance with safety standards for efficient and safe production operations.

Achievements:

- ❖ Submitted several proposals to optimize automation processes and substantially increase employee safety and productivity.
- ❖ Demonstrated and passed on improved processes for daily tasks which have increased employee safety and productivity.

Core Scientific - Data Center Technician

(Pecos, TX)

OCT 2023 - MAR 2024

- ❖ Supported the COT-1 data warehouses by conducting installation and maintenance operations on greater than 55,000 ASIC (SHA-256D) cryptocurrency mining and shared-space assets, minor network and industrial cooling infrastructure, and workplace tools and equipment.
- ❖ Rapidly diagnosed hardware and software issues preventing mining assets from operating above per-model minimum hashrate, replacing components and renewing firmware installations at company record breaking pace.

Achievements:

- ❖ Increased equipment uptime from a global average of 90% to 98%, raised customer satisfaction rating from 72 to 91, identified a major data security issue, set a standard for communication and documentation among my peers, and submitted 12 proposals.
- ❖ Formally submitted several major successful proposals to increase asset security, efficiency, and profitability, employee safety and retention, and ease of asset management at scale.

SKILLS

Software Development and Computer Networking:

Extensive knowledge of computer science: architecture, software design patterns and implementation, data structures and algorithms, devops and ci/cd pipelining, computer networking, web technologies, desktop application development, distributed applications, devops and deployment, virtualization, container bootstrapping, registration, and orchestration, cloud solutions on multiple cloud service provider platforms, cryptography, graphics programming, information security best practices, legal obligations when handling sensitive data, and more.

Troubleshooting: Ability to identify and resolve issues in automated systems efficiently.

System Maintenance: Proficient in maintaining and upgrading automated systems for optimal performance.

Process Optimization: Natural skill in analyzing and optimizing automated processes to enhance efficiency and derive the optimal balance of performance,

Revature - Full-stack Software Developer

(Reston, VA)

AUG 2018 - FEB 2019

- ❖ Java EE, Spring Boot, Jenkins, Tomcat, Maven, Gradle, OracleDB 11G, Hibernate, Docker, Angular.

Achievements:

- ❖ Authored and performed a company-wide tech talk introducing my peers to WebGL, proposing common challenges and solutions for designing and deploying graphical applications on the web, including quickstart example project GitHub repos for Angular, Vue, and HTML/CSS/JS.
- ❖ Established the “Study Buddy” application as a project submission repository, which the company forked and refactored for internal use.

EDUCATION

Howard College — *Associate's in Computer Science*

(Big Spring, TX)

JAN 2016 - DEC 2017

Tarleton State University — *Bachelor's in Computer Science (incomplete)*

(Stephenville, TX)

JAN 2020 - MAY 2021

integration, and development.

Adaptability: Capacity to adapt to new technologies and evolving trends in technology, security, and design.

Analytical Thinking: Strong analytical skills and determination to diagnose and solve complex challenges.

Collaboration: Ability to work collaboratively with cross-functional teams, including engineers and production staff.

Documentation and Technical Writing: Proficient in creating and maintaining documentation for software systems.

Safety Compliance: Understanding and adherence to safety standards and regulations.

Continuous Learning: Commitment to mastering and staying updated on emerging technologies and industry best practices.

Communication Skills: Effective communication to facilitate coordination between different teams.