

# Chayce Reed

chaycereed@datageekdesigns.com 

[linkedin.com/in/chaycereed](https://www.linkedin.com/in/chaycereed) 

[datageekdesigns.com](https://datageekdesigns.com) 

[chaycereed.com](https://chaycereed.com) 

774 454 2268 

Boston, MA 

## Professional Summary

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Software and Automation Engineer with experience in agile development, equipment integration, and workflow automation in GxP environments. Focused on building custom software solutions to streamline operations, reduce manual effort, and solve high-impact problems in health and life sciences.

## Education

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### University of Massachusetts Amherst

2015 - 2019

Bachelor of Science in Chemical Engineering

Concentration in Biochemical Engineering

## Experience

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### DATAGEEK DESIGNS LLC

2025 - Current

#### Founder, Software & Automation Engineer

**Founder:** Launched Datageek Designs LLC to pursue projects in data integration, workflow automation, and digital health.

**Business Development:** Built internal infrastructure, including project tools, supporting documentation, and a client-facing website.

**Next.js:** Developed and deployed a responsive company website using Next.js, Tailwind CSS, and Vercel.

**TypeScript:** Built and launched a dynamic personal website using TypeScript and PostgreSQL.

**Supabase:** Built backend functions using Supabase's PostgreSQL database, RLS, and RPC functions to power dynamic content and API-driven features.

**Python:** Utilized Python for data analysis, API integration, and workflow automation in personal projects and coursework.

**Opportunities:** Actively exploring full-time and contract roles focused on health-data analytics and intelligent automation.

### BMS

2023 - 2025

#### Senior Software Engineer, Enterprise MES

**Product Owner:** Defined product vision and collaborated with stakeholders to deliver features aligned with business goals and user needs.

**Scrum Master:** Led daily standups to drive agile processes, unblock team issues, and ensure timely delivery of high-quality software.

**System Integration:** Developed components to process data from SAP, Oracle, and LIMS, enabling seamless data exchange and reducing manual entry.

**Equipment Integration:** Built REST APIs and OPC UA interfaces to enable real-time equipment communication for data capture, monitoring, and analysis.

**SQL:** Designed and optimized stored procedures and tables to manage manufacturing data, facilitate workflows, and query large, relational datasets.

**C#:** Built a full-stack .NET web application with an interactive UI for configuring equipment interfaces, enabling real-time data exchange.

**JavaScript:** Built dynamic front-end visualizations for real-time metrics and equipment data, used for production monitoring and performance analysis.

**VBScript:** Developed custom components to automate tasks, parse equipment data, integrate with LIMS, and validate user inputs.

**Excel:** Created scripts to automate manual configuration activities and inject Excel data into SQL databases.

**Syncade:** Authored operations, work instructions, and custom behaviors using Syncade Recipe Authoring and Behavior Editor.

**Tableau:** Designed and deployed live dashboards with real-time data integration, enhancing visibility for production data.

**GitHub:** Managed version control and helped establish code review standards to improve team efficiency and code quality in agile environments.

**Jira:** Managed sprint planning, workflows, and backlog to prioritize development tasks and support timely component delivery.

### EIS

2022 - 2023

#### MES Consultant, BMS Partner

**Stakeholder Alignment:** Led requirement gathering with MS&T, QA, and MO to ensure deliverables met operational and compliance standards.

**Syncade:** Developed and configured recipes, leveraging data insights to optimize workflows and align with site-specific business requirements.

**SQL:** Wrote and optimized queries to extract and analyze manufacturing data, identify discrepancies, and maintain data integrity across workflows.

**CSV:** Supported IQ, UT, and ST/UAT validation efforts in HP ALM to ensure components met GMP standards and business requirements.

**Change Control:** Supported change control processes for component updates, ensuring compliance with QA procedures and minimizing downtime.

**Training:** Provided training and technical support to end users during deployment, ensuring smooth adoption and minimizing disruptions during startup.

**Lean:** Contributed to the Lean Leadership Cohort, applying continuous improvement strategies to streamline development and validation activities.

### Moderna

2021 - 2022

#### Manufacturing Associate, Lead

**Lead:** Led mRNA manufacturing operations for the COVID-19 vaccine, overseeing critical production processes and ensuring regulatory compliance.

**GMP/GDP:** Wrote and executed SOPs in alignment with GMP/GDP standards, supporting operational consistency, aseptic technique, and audit readiness.

**Data Integrity:** Performed batch record reviews and SAP reconciliation to ensure accuracy and traceability across production and documentation systems.

**Continuous Improvement:** Participated in CI and 5S initiatives to enhance efficiency, reduce waste, and improve operational performance.

## Proficiencies

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**Programming Languages:** SQL, Python, JavaScript, TypeScript, C#, VBScript

**Tools & Frameworks:** Next.js, Tailwind CSS, .NET, GitHub, Supabase, Vercel, Jira, Tableau, Excel, Syncade, HP ALM

**Systems & Integrations:** MES, LIMS, SAP, Oracle, OPC UA, REST APIs

**Methodologies:** GxP (GMP, GDP, GLP), Agile (Product Owner, Scrum Master), CSV, Lean