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Summary

An enthusiastic Software Engineer with over six years of professional programming experience. Throughout my professional history, I have worked with rest APIs, event driven systems, automation, and full stack frameworks. I had the opportunity to program with early languages like Cobol and Machine Assembly, to modern-day languages like Java, Kotlin, and Ruby. Enjoy learning new languages, frameworks, and operating systems to cultivate the best solution for any problem.

Skill Set Summary

Languages	Frameworks	Datasets
➤ Java	➤ Spring	➤ PostgreSQL
➤ Kotlin	➤ Kafka	➤ Elastic Search
➤ Ruby	➤ React	➤ Cassandra
➤ Python	➤ Asp.Net	
➤ C#	➤ Ruby On Rails	
➤ JavaScript		

Professional Highlights

Target – Software Engineer

Jan 2020 – Present (2 years)

	Action	Impact
Refactor and Rewrite	Rewrote mapper applications for our current system.	Decouple our system from using external vendors directly and removed five modules.
New Code	Created an application to consolidate API information into one response.	Cut down our calls by 2 to 3 times decreasing the load on external systems
Tools	Created a full stack application for taking all manual processes and make an easy user-friendly application.	This allowed our team to streamline incident timing by not needing specific paperwork for remediating issues.
Database	Created a React application for external partners to execute frequent questions. Migrated tables from flat to partitioned.	Reduced chat in our team room allowing external partners to do analysis on their own. Allowed our team to remove data monthly to reduce enterprise storage cost.
Testing	Created an application for persisting prod data into elastic search Created a test app that streamed current prod data and new integration data to match and validate end to end tests.	Allowed our team to easily search multiple parts of our data so we can perform analysis. Allowed us to confidently evaluate and document the success of new integrations.

Idemia – Associate Software Engineer

Feb 2019 – Jan 2020 (1 year)

	Action	Impact
Rest Interfaces	Created rest interfaces for our sequential app design to call. Implemented with encrypted messages.	Allowed for updates and new functions to be created to improve customer experience.
Team Lead	Lead team integrations for a new function for our app. Included regional standups and other requirement documentation.	Was main point of contact and expert so our branch could get up and running with new requirements and assumptions clarified.
Mock Apps	Created Mock applications to aid in full end to end testing.	Provided assurance that new features would not break our existing system. Front end UI enabled other teams to utilize our services as well.

	Action	Impact
Learning	Learned a COBOL like language to process and engineer data.	Was able to provide value quickly. Helped other with improved ways of doing things.
Script Design	Created a batch process job using the tech each engineer was given to process several scripts at once.	Cut down job processing time in half because most manual processes were removed.
Data and Composition	Learned composition software to run jobs from data all the way to the floor.	This cut down processing time because hand offs removed.

Personal Projects

Project	Description
Wedding Photo Contest <ul style="list-style-type: none"> ➤ URL: https://mollyandnathaniel.com/ ➤ Users: ~ 100 ➤ Uploads: ~ 50 ➤ Written in C# and ASP.NET ➤ Infrastructure: Digital Ocean Let's Encrypt SSL Nginx PostgreSQL 	<ul style="list-style-type: none"> ➤ Wrote a website with my friend for uploading photos for my wedding. We had an admin page to approve photos and select winners. It was fun to write the whole service and deploy it.
Personal Website <ul style="list-style-type: none"> ➤ URL: https://www.nathanielpautzke.com/ ➤ Page Visits: ~10 monthly ➤ Written in: Ruby on Rails ➤ Infrastructure: Heroku PostgreSQL 	<ul style="list-style-type: none"> ➤ Create a personal website to highlight my career aspirations as well as personal hobbies. A little place to get to know me more outside of the traditional social media spaces.

Projects on GitHub - <https://github.com/zombieman010>

Repo	Description
<ul style="list-style-type: none"> ➤ Name: <i>bullseye_guy</i> Framework: Spring Database: Mongo ➤ Name: <i>maze_engine</i> Framework: Spring Database: None 	<ul style="list-style-type: none"> ➤ Rest application that will take in a client request for a Target product and return json details. Each request cached in Mongo for the next call. ➤ Rest application that will take in a maze consisting of pound signs, dots, and letters. Will use Breadth-first search algorithm to find fastest path and return result.

Education

- **Colorado State University System, Global Campus**
 - Bachelor of Science, Information Technology

Other Skills

Skill	Description
➤ Communication	➤ Experience working in a global team. Having the ability to convey requirements and questions efficiently. Able to tele commute using apps like Slack, Skype, Zoom, and more.
➤ Written Communication	➤ Able to outline design documents and application specs using Confluence and other documentation apps. Included as part of the development lifecycle.
➤ Leadership	➤ Experience leading a product while being part of development. This included delegating tasks to certain teams both domestic and international.
➤ Critical Thinking	➤ One of the most critical soft skill is critical thinking. Having the ability to not only maintain functionality, but also create and scale it. I can demonstrate this daily by developing a product from design to production while thinking of scaling and maintaining factors. Concepts I focus on are reusable code, keeping it simple, and the ability to properly test everything.