Nathan Laning

Software Engineer - Boulder CO, 80303 - (802)-451-9775
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Work Experience

Software Engineer/AI Developer – Diesl.ai   **10/2024-03/2025**
- Primarily responsible for AI software solutions created primarily in Python
- Supporting and integrating cloud solutions and integrations with the software stack in Azure
- Supported front end and backend development in Java (Spring Boot) and JavaScript (React.js/Next.js)
- Collaborating with team members on architecture design and implementation of the entire software stack
- Maintained and designed several databases primarily using Postgres SQL
- Assisted in maintaining a Kubernetes cluster using Docker containers for each primary service

Manufacturing/Process Engineer – OnLogic – South Burlington, VT   **09/2018 – 11/2024**
- Created and maintained numerous software solutions for manufacturing and company wide use using web applications (React.js/Next.js, PHP, MySQL, Python, G-Script) and desktop applications (C#, Batch, Bash)
- Responsible for several servers that I maintained with a collaborator and the support of our IT team
- Responsible for the corrective action team, coordinating long-term efforts to solve large scale issues
- Gained extensive knowledge of computer hardware and hardware level software interactions
- Responsible for implementing continuous improvements often prioritizing efficiency or quality
- Responsible for production readiness of new components and systems, using graphic design tools to create work instructions (Adobe Photoshop, Adobe InDesign, Affinity Photo, Affinity Designer)

Education

Bachelor of Science in Computer Science

University of Vermont – Burlington - VT 05401   **08/2014-05/2018**
- Minor in pure math, mainly Engineering related (Differential Equations, Linear Algebra, High level Calculus)

Applicable Skills

- High level of drive and adept at accomplishing tasks independently
- Experience in leadership, training, and giving fair feedback to team members
- Ability to flex between different tasks and problems quickly and effectively
- Designing and implementing full stack software solutions from scratch with a focus on speed and reliability
- Extensive experience in Python, PHP, HTML/CSS, SQL, Next.js, Typescript, and vanilla JavaScript
- Moderate experience in Bash/Batch Scripting, C, C#, C++, Ruby, and Java
- Deployment tools such as Docker, Kubernetes, and Ansible on metal and in cloud environments (Azure)
- Developed API's as well as Azure Service Bus for service communication
- Software development and tracking tools (Jira, GitHub, GitLab, SVN's, etc.)
- Extensive experience working in Linux server environments, creating services, evaluating hardware effectiveness/bottlenecks, and distributing workloads between numerous machines

Accomplishments

- Helped create AI vision processing for manufacturing (Python, MinIO, Postgres, OpenCV)
- Created software a solution to handle document OCR extraction and processing (Python, Azure, SQL, GPT)
- Architected and implemented a custom ecosystem for guaranteed uptime during development deployment on bare metal hardware (Linux Server Management, NGINX, Docker, Ansible)
- Creation of a digital traveler tool with a collaborator that significantly boosted the accuracy and productivity of the assembly process (PHP, JavaScript, MySQL)
- Inception, design, and prototype of a complex assembly instruction and traveler tool (Next.js, MySQL)
- Created tools for data management and KPI tracking for various departments (Google Sheets, G-Script)
- Independently created a web-based software suite to support our internal new product introduction process. Allowing full customization for each department (PHP, JavaScript, MySQL)
- Owned and overhauled the corrective action process to solve multi-departmental processes that have high impact on quality, customer experience, and efficiency.
- Developed a prototype to automate computer interactions for our assembly line. Utilizing hardware level software and more modern communication techniques (Python, C)
- Created my own website, www.nathan-laning.com, which required obtaining and installing SSL certificates, DNS name spacing, and local port management (Next.js, Docker, Networking, Linux Server Management)