

# Joe Krisciunas

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## SUMMARY

Accomplished software engineer with a strong foundation in back-end development and an enthusiasm for Machine Learning. Proven track record in designing scalable systems, enhancing system reliability, and implementing client-centric solutions. Seeking a full-time software engineering role with project leadership responsibilities that leverage my comprehensive skillset to contribute to state-of-the-art Machine Learning projects.

## WORK EXPERIENCE

### AMAZON WEB SERVICES | SOFTWARE ENGINEER

Seattle, WA | August 2022 – Current

- Led the design and scaling efforts for a file management service, transforming the project into a comprehensive platform with public APIs. This initiative resulted in **high seven-figure revenue** with a recurring revenue stream projected to grow to eight figures.
- Spearheaded the implementation of critical monitoring, scaling, and stability tuning for multiple services. Ensured an up-time of **99.99%** with a capacity of **50 transactions-per-second(TPS)**.
- Currently completing advanced coursework in Machine Learning and Artificial Intelligence through AWS's Machine Learning University, completing projects such as an automated ML pipeline using **XGBoost** and **Sagemaker**, and developing an image classifier which utilized **convolutional neural networks** in **PyTorch** to categorize locations.
- Developed a continuous deployment pipeline with **AWS CDK** for a new service, achieving a **61% quicker** global deployment while maintaining stability through pre-production stages and a fully automated integration test suite.
- Ventured outside the scope of my role to contribute to Artificial Intelligence security, alignment, and usability research.

### TIBCO SOFTWARE | SOFTWARE ENGINEER

Naperville, IL | June 2021 – July 2022

- Directed efforts to improve internal DevOps tools and practices, including a system for auto-scaling self-hosted **GitHub Actions runners** on a dedicated **K8s** cluster hosted on **AWS EKS** and managed via **Helm**.
- Significantly reduced development costs through planning and constructing new CI/CD infrastructure, such as a new **Jenkins** build system which performed **513% faster** than previous systems.
- Developed custom OS and network infrastructure using **K8s** to create sandboxed testing environments, enhancing software isolation and security.
- Modernized and advanced security practices for my division, which included developing a custom SBOM generator program as well as deploying a webhook-verification app using **Nginx**, **Go**, and **Lua** to validate services and secure endpoints for our development pipeline.

### COLLINS AEROSPACE | SOFTWARE ENGINEER INTERN

Carrollton, TX | June 2020 – August 2020

- Reduced QA testing time by **67%** by developing an application that automated the construction of testing environments using **Python**, **SQL**, and **VBA** for AIM security software utilized by multiple governments for critical security operations.

## EDUCATION

### B.Sc. Software Engineering, Magna Cum Laude

Terre Haute, IN | May 2021

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

## SKILLS

**Programming Languages:** Java, Python, TypeScript

**Machine Learning & AI:** PyTorch, SageMaker, LangChain, OpenAI APIs, NLP, CNNs, Prompt Engineering

**Backend Technologies:** Node.js, REST APIs, Microservices, SQL, NoSQL

**DevOps & Tools:** Docker, Kubernetes, Jenkins, GitHub Actions

**Web Technologies:** AWS (EC2, S3, Lambda, CloudWatch & many more), GCP (App Run, Firebase), SEO, Google Core Web Vitals

**Other Technical Skills:** Distributed Systems, Data Structures and Algorithms, Networking, Operating Systems

## LEADERSHIP

### EAGLE SCOUT

Demonstrated organizational skills, determination, and communication skills by successfully serving as the leader of my troop, completing merit badges and organizing and completing a community service project with dozens of volunteers.