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 – September 2024

- 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%** via 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.