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Son H. Nguyen

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Skills

- **Languages:** Python, Java, JavaScript, TypeScript, C#, C++, PHP, SQL, Bash.
- **Frameworks and Libraries:** Seldon, MLServer, ArgoWorkflows, ArgoCD, Feast, dbt, MLFlow, DroneCI.
- **Tools:** Kubernetes, Docker, Git, Linux, Bazel, AWS, GCP, Azure, Elasticsearch.

Work Experience

Senior Lead Software Engineer **MoMo E-Wallet Company** **Nov 2021 – Present**

- Optimized time to onboard new ML models from 2 weeks to 2 days, and 75% the cost of maintenance by applying **MLOps** practices.
- Optimized the computation cost for model training and data processing by 85% by leveraging spot instances.
- Achieved 99.9% availability SLI by building a monitoring and alerting system for our services.
- Contributed 40,000 transactions/month by developing a social **graph-based** solution that enhances notification targeting and recommendation precision through user-friend relationship scoring.
- Improved peer-to-peer money sending CTR metrics by 162% for top-8 recall through developing a machine learning model predicting money recipients.

Product & Platform Lead **Pique.ai Startup Company** **Aug 2020 – May 2021**

- Automated the integration of personalized recommendation engines into clients' systems by developing an end-to-end recommendation platform using TypeScript and Azure's services.
- Expanded client base by integrating our recommendation platform with partners like MoEngage and Haravan.
- Increased daily search queries number by **250%** and cart rate by **45%** for a partner's website by developing a similar item recommendation engine and employed Elasticsearch module for search engine.

Projects

MLOps Platform

- Designed the architecture to apply MLOps practices to improve team productivity and optimize cloud cost.
- Built some platform's components e.g: orchestrator, featurestore, model registry, model serving components, CI/CD/CT, request logging, monitoring alert systems.
- Led the team of 6 members to refactored data, model pipelines, source code into a single platform.

Recommendation Platform

- Designed and implemented the architecture for platform including user event collector, on-demand infrastructure for model training, model serving APIs.
- Developed a JavaScript tag generator service that allows clients to integrate with the platform APIs by simply injecting a single script tag into the website's pages.
- Published recommendation boxes using JavaScript tag into a Haravan platform website and finished an POC to integrate the recommendation engines into email marketing product of MoEngage company.

Education

Hanoi **Hanoi University of Science and Technology** **Jun 2017**

- Bachelor of Computer Science Engineering

Additional Experience and Certificates

- Japanese Language Proficiency Test (JLPT) N1
- AWS Certified Solutions Architect Associate - Credential ID: 2BBH1ZPCKFF1135M
- Coursera Machine Learning - Credential ID: ME5JJZLAK8DX