

Hy Doan

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Summary

Full-stack software engineer with 7+ years of experience, strong mentorship skills, and a solid understanding of the full data lifecycle. Experienced in collaborating with remote, cross-functional teams including product, UX, and data science to deliver scalable, user-focused solutions. Actively seeking mid to senior-level engineering roles.

Work Experience

Software Development Engineer 2, Fulfillment Tech, Amazon.com – Austin, Texas Apr 2020 – Dec 2024

- Led design and implementation of a full-stack web app and data pipeline service for a team of six engineers to improve warehouse operator efficiency by reducing number of applications needed for operational visibility
- Coordinated deliverables and weekly data quality syncs with EU teams
- Streamlined data quality audit process via Jupyter notebook to improve audit time and consistency
- Performed exploratory data analysis on 10+ data sets and talked with several teams to identify best data sets to meet product requirements
- Collaborated with data scientist to productionize statistical model by building data pipelines and improving performance with PySpark
- Designed and implemented system allowing data science team to rapidly deploy and schedule Python scripts via AWS Glue
- Worked on a cross-functional team with data scientists and BIEs to build an experimentation platform using synthetic control method to improve statistical significance of warehouse experiments
- Facilitated team system operations meetings to deep-dive issues and discuss opportunities for improvement
- Mentored 2 SDE1s and 1 SDE intern to promotions and return offers, respectively
- Owned yearly project planning and documents for team reporting to senior manager

Software Development Engineer 1, Fulfillment Tech, Amazon.com – Austin, Texas Sept 2017 – Apr 2020

- Designed and led implementation of a schema-agnostic data validation system for 50+ warehouses across North America and Europe reducing false alarms for warehouse operators
- Implemented automated integration tests in deployment pipelines to improve CI/CD
- Presented best practices for new integration test platform within Amazon to several teams
- Modeled and maintained core timeseries data model packages used by 10+ teams
- Organized and facilitated a 30-person engineering hackathon

Software Development Engineer Intern, Cart, Amazon.com – Seattle, WA June 2016 – Aug 2016

- Designed and developed feature on mobile to alert users to price drops on items in cart
- Worked closely with UX designer to rapidly iterate on frontend experience

Projects

Money Map

Personal finance planning and account-level simulation app with drag-and-drop interface

- NextJs web application utilizing local browser data storage deployed on Vercel
- Projects account balances using current balance and interest percentage
- Calculates simulated total gains and taxes based on current tax bracket

Skills

Languages (proficient in bold): Java, Python, Typescript, C++, SQL

Frameworks & Databases: React, NextJS, Spring, Django, PySpark, Dynamo, Redshift, Neptune

Tools: AWS, CDK, Jupyter Notebook, Grafana, V0, Generative AI models (ChatGPT, Claude)

Education

University of Michigan, B.S. in Computer Science – Ann Arbor, Michigan

April 2017