Jack Horan

New York, NY | Software Engineer (3.5 years) — Developer Experience, Performance, and Scalable Products

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Experience

Capital One	New York, NY
Software Engineer II	*February 2024 – Present*
Software Engineer I	*August 2022 – February 2024*

Design System Engineer
Built 15+ components (Lit, React, Angular) used across 1,500+ repositories and adopted by 400+ teams.
- Created component-level GitHub analysis tooling to measure design system usage, directly enabling approval of a new project and multi-year platform roadmap.
- Overhauled CI/CD pipeline, delivering 30% faster pipeline builds and 90% fewer failures.
- Owned end-to-end component development, from scoping to iteration and production.
- Conducted a root cause analysis that was used by three teams to fix the same issue in their apps.
- Implemented nx distributed caching on ECS, cutting cold builds from 15 minutes to 10 seconds.
- Selected to present front-end best practices to a 600-person incoming engineering cohort.

Core Banking Product Engineer
Developed core functionality and resiliency tooling for high-volume financial transactions.
- Spearheaded performance analysis initiative using k6, d3, and TypeScript, improving transaction latency by 40% and providing data to enable a $100M migration decision.
- Defined a code convention replacing deeply nested business logic with flatter and more readable patterns, adopted by five teams across multiple lines of business.
- Built an MVP savings product with Elm and Scala to validate feasibility of new core ledger system.
- Authored a 30-page analysis on backdated transactions and balance recalculations which was used to drive key changes to core ledger logic.

Software Engineer Intern	*Summer 2020, Summer 2021*

- Built an app (React, Django) used for labeling 10,000+ documents for machine learning.

Lantern	San Francisco, CA [Remote]
Software Engineer Contractor	*Spring 2021*

- Developed a collaborative spreadsheet React site with Salesforce API and Supabase integrations.

Projects

Aimless – JavaScript, d3, Node.js, Spotify API
- Built customizable playlist generator suggesting 10,000 songs for 400+ users across 20 countries.
- Visualized listening preferences with d3 and automated custom playlist creation via Spotify API.

FramedLikeHome – Python, GeoPandas, Etsy API, Printful API
- Created an automated Etsy store that generated, printed, and shipped artistic maps of cities.
- Built a pipeline to batch-input ZIP codes and publish listings on Etsy.

Education

Washington University in St. Louis, McKelvey School of Engineering – Cum Laude	St. Louis, MO

M.S. in Computer Science – 3.78 GPA
B.S. in Computer Science and Math – 3.80 GPA

Skills

Certifications: AWS Solutions Architect – Associate, AWS Cloud Practitioner
Languages: TypeScript, Python, Go, Elm, Java, HTML, CSS
Hobbies / Interests: Rock climbing, reading, musical instruments, photography, accessible design, coffee