

# Patrick Hanford

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## Skills

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**Languages:** JavaScript | TypeScript | Python | C# | Go | Elixir | Kotlin, **Frontend:** React | Vue | NextJS | React Native | TailwindCSS, **Backend:** Django | Flask | FastAPI | Entity Framework | GraphQL, **Cloud/DevOps:** AWS | GCP | Azure | Docker | GitHub Actions

## Experience

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### Ford Motors International

Sep 2024 - Nov 2025

*Fullstack Software Engineer*

- Worked with data engineers to integrate new data sources across the company domain into generative AI products, increasing the user-base.
- Integrated internal API analytics product into generative AI products to identify actionable insights in performance, reducing average response time by 90% (1m14s to 7.2s).
- Built a Text2SQL integration into the generative AI product from scratch as an independent service, creating a completely new customer base.
- Built Chart.js integration into LLM response components, enabling dynamic data visualization from RAG outputs, replacing static table displays.
- Developed async dynamic dropdown components with incremental API loading, adopted as common components across the micro-UI ecosystem.
- Optimized RAG pipeline APIs (Flask/FastAPI), added new data sources, reduced response time by 90% (1m14s to 7.2s), and scaled architecture for increasing payload demands.
- Added dynamic functionality to common UI components to support more advanced use cases such as dynamic options loading, virtual scroll, and emitters.
- Implemented DX (developer experience) standards and policies to aid team productivity and streamline feature development with less regression and conflicts.
- Supported production deployment of an internal tool built to replace a legacy system used company-wide for data aggregations.

### Robert Half International

Feb 2020 - Mar 2024

*Fullstack Software Engineer*

- Implemented Docker Swarm for an agency supporting numerous legacy Laravel (PHP) sites.
- Redesigned an Angular Cordova cross-platform mobile application for React Native, managing app store compliances and distribution pipelines.
- Developed DotNet Core (C#) API for a mobile application using Entity Framework, Linq, and SQL Server.
- Designed a system to maintain data across multiple databases (SQL Server, Postgres, MySQL) using the Serenity framework (C#).
- Extended and maintained CI/CD pipelines for various app types in Azure DevOps, GitHub Actions, AWS Elastic Beanstalk, and Jenkins.
- Developed a video conferencing application using Django Rest Framework (Python) and NextJS (React).

## Notable Projects

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