

# Eric Hartford

Machine Learning | Software Engineer



## About me

Machine Learning and Software Engineer of 20 years professional experience, with an emphasis on cloud architecture and scalable, maintainable designs.

Expert in several programming languages and paradigms.

Recognized for judicious, pragmatic approach to systems architecture and design. Proficient in serverless architectures and web APIs, with a strong background in database technologies.

Recently transitioned into the Machine Learning field, with a focus on open source AI and Machine Learning projects.

## Contact

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## Technologies and Skills

Leadership Research Integrity Pragmatism

Professionalism Communication

Passion to Learn Creative Solutions Insight

Java/Kotlin/Scala JavaScript/TypeScript

Python Linux/Mac/Windows Databases

Interfaces Mobile and Touch

Charts and Dashboards API Design

## WORK

2023-Present

### ML Engineer, Self Directed

*Open Source AI and Machine Learning Projects*

Released an original AI instruction / conversation model named Samantha and accompanying blog post, to substantial acclaim.

Authored a popular blog post "Uncensored Models" advocating for composable alignment in the open source AI community, to substantial acclaim.

Finetuned and released various models including 'WizardLM Uncensored' 7B,13B,30B', 'WizardVicuna Uncensored' 7B,13B,30B 'Alpaca1337' to substantial acclaim.

Developed several Python and JavaScript programs for data collection via OpenAI's ChatGPT API.

Created the 'leet10k' machine learning dataset, transforming it into Alpaca and OpenAssistant formats for ML model training.

Collaborated with notable open source AI engineers on several projects including Open-Assistant.

2021-2023

### Senior Software Engineer

*Microsoft*

Full stack development in infrastructure, identity, and campaign management.

Championed integration of TypeScript and Azure technology stack.

Implemented backend in Node, frontend in React, MaterialUI, LoDash, Redux.

Worked on migration to NestJS and NextJS frameworks. Implemented pagination, filtering, sorting.

2019-2021

### Staff Software Engineer

*eBay*

Owned multiple features, services, and pipelines in areas of message platform and content management.

Developed UI in TypeScript, Formik, MaterialUI, React, and LoDash.

Developed backend in Node, Kotlin, Java, JavaScript, Typescript, Kafka.

Technical Lead, Architecture, Deployment

2016-2019

### Senior Software Engineer

*Amazon Web Services*

Owned UI for network topology deployment validation, developed with TypeScript, Bootstrap, React, and LoDash.

Developed backend in Python, Java, PostgreSQL, DynamoDB, SQS, SNS, Lambda, Serverless.

Full ownership of deployment, operations, and incident response.

Designed for scale, deploying global fleets instrumented for monitoring and alerts.

## EDUCATION

### Master of Science

**University of Washington**

*Computing and Software Systems*

### Bachelor of Science

**Pacific Lutheran University**

*Computer Science*