

## WHO ARE YOU?

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Hi! I'm Jesse.

I'm an **experienced Software Engineer generalist**, passionate about solving novel technical problems at whatever level of the stack they arise.

I've been shipping software for nearly a decade — sometimes bootstrapping green-field projects into production; other times wrangling legacy code into shape while continuing to deliver features.

In a rush? Here's the TL;DR —

- **Senior Software Engineer @ TodayTix** — an international platform redefining how people see theatre.
- **Published author in NLP/ML research**, particularly around computational linguistics and topic modeling.
- **Named inventor on a NLP/IR-related patent.**
- **Active contributor to the OSS community**; insatiable dabbler; with a continuous backlog of pet projects.

## WHAT HAVE YOU BEEN UP TO?

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### Senior Software Engineer.

(2014 - PRESENT) **TodayTix**

Grew the engineering team 3x over three years, and led or contributed to myriad projects along the way.

- Championed a culture of **DevOps** best-practices, through version-controlled configuration management, adoption of containerization, and immutable infrastructure. [**Ansible, Docker, k8s, Hashicorp stack, etc.**]
- Contributed to the green-field rewrite of **todaytix.com** — from cross-platform (iOS/Android/Web) API specification (**Swagger/OpenAPI**), to implementation in a modern, SEO-optimized SSR **React/Redux** stack.
- Owned the implementation of **Backend API integrations** with a diverse array of third party (B2B) ticketing partners, amounting to six figures in revenue per year and growing. [**REST, Systems Architecture**]
- Resident **SQL/Hibernate/(G)ORM guru**; known to improve the runtime of the most untenable of queries by an order of magnitude or more. Profilers fear me.
- Overhauled internal CMS/CRM platform (both FE & BE), including **coordinating with stakeholders** to ensure business priorities aligned with technical implementation. [**AngularJS, Grails/Spring, Sketch**]

### Natural Language Processing Engineer.

(2014 - 2015) **Walker Innovation**

Developed a proprietary domain-specific unsupervised machine learning model to identify statistically relevant patents to a product line. My system combined a number of approaches, including **semantic analysis and topic modeling (LSA / LDA)**, and succeeded in outperforming any contemporaneous systems in digital Patent Law analysis.

### Software Engineer & Research Associate.

(2010 - 2014) **American National Corpus**

Lead developer for the **NSF-funded Language Application Grid (LAPPS) project**, responsible for wrapping NLP services as web services compliant to our APIs, working with collaborators to design the LAPPS framework and mentoring junior developers in contributing to the project.

## COOL. WHERE'D YOU STUDY?

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Bachelor of Arts: **Vassar College**

Class of **2013**

Degree: **Neuroscience**

Minors: **Computer Science, French Literature**