JESSE STUART

github.com/jessestuart • jesses.io
hi@jessestuart.com • +1 586.943.2680

WHO ARE YOU?

Hi! I'm **Jesse**.

I'm a **Senior Software Engineer generalist;** passionate about solving novel technical problems at whatever level of the stack they arise.

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

In a rush? Here's the TL;DR —

- **Senior Software Engineer** @ **Eden Health** — a young startup poised to reshape how we approach healthcare.
- **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?

Senior Software Engineer.   (2018 - PRESENT) **Eden Health**

- Led development of the core user-facing product, a cross-platform mobile app [**React Native**] allowing patients to interact with licensed healthcare providers in realtime [**PubNub**, with a smattering of custom microservices to glue things together].
- Integrated open source tools to improve product quality and accelerate team velocity, including:
    - Implemented a **fastlane CI pipeline** to ensure every pull request had a corresponding **TestFlight** build that could be easily reviewed by product managers, significantly **improving QA throughput** as a result.
    - Built out a self-hosted error reporting service around **sentry.io**, allowing Eden to precisely measure production errors in realtime while remaining **HIPAA compliant**. Threw in some custom integrations with **SumoLogic** and **Prometheus** for good measure, and contributed some upstream fixes along the way.

Senior Software Engineer.   (2014 - 2018) **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 numerous 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 several 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.

NICE. WHAT ABOUT SIDE PROJECTS?

I bleed open source; that doesn't stop when I clock out from sprint work. Some examples of personal projects:

- I run a 10+ node **Kubernetes cluster** out of my apartment; because what a time to be alive, right. This is my playground for all sorts of fun side projects, and I love finding ways to share my homelab discoveries in ways that benefit the team.
- I maintain several popular Docker images, including the multi-architecture version of the Kubernetes Helm image; collectively, these have been pulled 1.7 million times from Docker Hub as of 2019.
- I've contributed upstream features / fixes to a variety of popular open source projects, including Kubernetes, Helm, Sentry, CoreDNS, GatsbyJS, and React Native.
- I take a **lot** of pictures. Be prepared for my lenses to show up at your All Hands'.

DOPE. WHERE'D YOU STUDY?

Bachelor of Arts:	Vassar College	Class of **2013**	
Degree:	Neuroscience	Minors: **Computer Science, French Literature**	