

TJ Ward Full Stack Application Development

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SUMMARY

- Full stack developer with over 20 years of experience designing and building web-based applications
- Fluent in modern development practices
- Passionate about building usable, performant, and maintainable software
- Independent self-starter who likes working with other passionate people

EXPERIENCE

Sana Benefits

[<https://sanabenefits.com>]

Senior Full Stack Engineer November 2022 - November 2023

Scope, design, and implement internal and customer-facing features for a health insurance startup, using Ruby on Rails and React.

- Reduced cost-to-serve Sana customers by ~20% through task automation and new customer-facing features
- Reduced time to onboard new customers by ~75% through task automation and new customer-facing features
- Development of new user-facing and internal features using Ruby, Javascript, HTML, and CSS
- Technical leadership and direction of a team of seven junior and mid-level engineers
- Collaboration with product, design, and operations to design and scope new features and improvements

UNC Department of Genetics Berg Lab

[<https://www.med.unc.edu/genetics/berglab/>]

Senior Developer February 2020 - October 2022

Research, design, and build custom business solutions for an NIH-funded consortium using web standards, PHP, Python, Kubernetes, Apache Kafka, and other technologies.

- Reduced hosting costs by nearly 75% by migrating to UNC hosted RedHat OpenShift.
- Reduced user task load by 30% through user-centered feature design and task automation
- Automation of data synchronization between applications with web APIs and Apache Kafka
- Improved stakeholder relations by increasing transparency into the development process

UNC Sheps Center for Health Services Research

[<http://www.shepscenter.unc.edu>]

Lead Developer 12/13 - 1/20

Modernized a team of 5 developers servicing health services researchers by setting code standards, establishing development conventions, and adopting community best practices.

- Increased team flexibility and velocity by modernizing team's development practices and standards
- Reduced developer onboarding time by 50% by migrating to a leading MVC Framework

- Reduced defect rate across projects by 23% by introducing automated testing
- Improved client relations by introducing agile and user-centered design practices

Newfangled

[<http://www.newfangled.com>]

Developer 02/13 - 11/13

Developed custom web sites for clients using server-side technologies and web standards.

- Development of custom web sites using PHP, MySQL, JavaScript, HTML, and CSS
- Responsive site development
- Maintenance and improvement of client sites

UNC Libraries

[<http://www.lib.unc.edu>]

Applications Analyst 03/11 - 12/12

Developed digital library systems using Python, web-standards, Apache Solr, and other technologies.

- Design information architecture and user interfaces
- Custom application development using PHP and Python
- Design of a Solr index and integration with Django and PHP applications

Viget Labs

[<http://www.viget.com>]

User Experience Designer 12/09 - 12/10

Researched and designed user experiences for client's web-based products.

- Conduct user and stakeholder research to define scope, vision, and direction of projects
- Create high quality deliverables to convey information architecture, interaction design, and content strategy
- Work with software engineers, graphic designers, and stakeholders to design web sites and applications for clients

Lulu.com

[<http://www.lulu.com>]

User Experience Designer and Developer 06/06 - 12/09

Designed and developed user-facing products for a self-publishing start-up.

Ibiblio.org

[<http://www.ibiblio.org>]

Applications Designer and Developer 08/04 - 08/06

Research, development, and execution of new technologies and applications including RSS, podcasting, blogging software and BitTorrent.

UNC Libraries

[<http://www.lib.unc.edu>]

Web Developer 09/02 - 08/04

Designed, developed, and supported web-based applications for library staff and patrons using PHP, MySQL, PERL, JavaScript, XML, and HTML.

UNC Libraries - Media Resources Center

[<http://www.lib.unc.edu>]

Library Assistant 12/00 - 09/02

Developed a web accessible database-driven application to help library patrons browse UNC Library's non-print collection.

WORK

ClinGen Group & Personnel Management System

[<https://github.com/clingen-data-model/gpm>]

An organization management system to track over 2000 members of the Clinical Genome Project, an NIH funded consortium.

ClinGen Gene Tracker

[<https://github.com/clingen-data-model/clingen-gene-tracker>]

A Laravel/Vue.js based application to help bio-curators working for the NIH funded Clinical Genome Project track their work and avoid duplication of effort.

ClinGen Community Curation Database

[<https://github.com/clingen-data-model/community-curation>]

A system to onboard and track assignment, training, and attestations of volunteer bio-curators for the NIH funded Clinical Genome Project.

SKILLS & TECHNICAL EXPERIENCE

PHP, Python, JavaScript, HTML 5, CSS, MySQL, Redis, Apache Kafka, Laravel, Django, FastAPI, Vue.js, Docker, OpenShift/Kubernetes, Git, Mercurial, Vagrant, Test Driven Development, Software design, User centered design, User needs analysis, Information architecture, Interaction design, Product design, Specifications development, Problem solving, Analytical and interpretive thinking

EDUCATION

Masters of Information Science

University of North Carolina at Chapel Hill - School of Information and Library Science

May 2006

BA in English Literature

University of North Carolina at Chapel Hill

May 2000