

# JWUN-DA (JD) LU

## Web Developer

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## EDUCATION

Bachelor, Computer Science  
(1996-2000)

**State University of New  
York at Stony Brook**  
Stony Brook, NY

## SKILLS

- Javascript/ES6/Typescript
- React
- Redux/Zustand
- CSS/Sass/Scss/Tailwind
- NextJS
- MySQL/GraphQL
- Atlassian Suite/JIRA
- Git
- Docker
- Ruby/Rails/Rspec
- Jest/Enzyme
- Cypress/Playwright

## PORTFOLIO

- [crawl-dungeons.jdlu.com](https://crawl-dungeons.jdlu.com)
- [github.com/jdlu10/crawl-dungeons](https://github.com/jdlu10/crawl-dungeons)

## CAREER OBJECTIVE

Looking to explore and build new and exciting user experiences on the web and/or mobile devices. To prototype and experiment with new technologies.

## WORK EXPERIENCE

### Software Engineer

*GeneDx(Previously Sema4)*

📍 New York, NY 📅 Oct 2017 - Feb 2024

- Built and maintained the patient portal test ordering forms, client facing web application where users can review their test reports online. Keeping the site up to date with current SEO optimization and web accessibility features. Worked closely with Product and designers to roll out various enhancements and features on the front end with the goal of user retention and engagement while also ensuring responsiveness and user friendliness on the genetic test forms themselves. Core application stack was Javascript/React, Ruby on Rails and MySQL.
- Worked with Product and Design on features such as Ancestry Report, an interactive visual geographic breakdown of an user's ancestry data based on submitted DNA samples. It features a clickable and expandable map and is completely responsive with tailor made CSS with preprocessors and programmable styles within the React components.
- Also created other interactive features to make the site more useful for the patients and clients. Features such as Genetic Consult Scheduler which allows users to easily set up appointments with local genetic counselors by working with external calendar scheduling RESTful APIs that the site interacts with to find out the available times for both the patient and the counselor.
- Developed and maintained the various genetic test result cards by working with APIs from the clinical teams. These test result cards offered dynamic and interactive ways to see the current state of the test and in some cases, a more clear and visual representation of the static test report PDFs.
- Worked with GraphQL via GraphCMS on some of the data rendered in various components of the site.
- Upgraded various components and dependencies used by the front end to be more modern and open source. For example, migrating from vanilla javascript/jQuery to React, switched to using automated build pipelines such as Webpack and Docker to streamline the cloud deployment process to both GCP and AWS hosting platforms.
- Implemented a number of testing frameworks such as jest and enzyme for unit testing and Cypress/Playwright for full end to end and regression.
- Built the server side rendered pages and modules or API endpoints in Ruby on Rails to support the various needs of the front end modules. Kept the modules well tested with Rspec and Capybara.
- Supported clients with troubleshooting and debugging using various tools such as LogRocket, DataDog, other Chrome debugging extensions for React, state management, rendering optimization, etc.

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## WORK EXPERIENCE (Continued)

### Senior Software Engineer

*Viacom*

☀ New York, NY  Oct 2006 - Nov 2016

- Front end team lead for Artist Platform project. Was in charge of maintaining the front end page GSP templates as the site is built on Grails framework. Managed the javascript/css/asset bundling using various open source modules like jQuery, Foundation, Sass, Gulp. Worked closely with external vendors for requirements gathering and provided admin interface for them to manage their profiles.
- Worked with Product and Design teams on vertical brand and experimental sites and features such as MTV vault, which was an archive of all the music video content that used to play on MTV that can be searched and played on the site.
- Supported and maintained various brand sites such as MTV.com, VH1.com, or CMT.com while enhancing its various CMS controlled modules.
- Worked on measuring and optimizing of our applications utilizing various benchmarking tools, resolving performance bottlenecks, and utilizing server side caching like redis or web caching services like Akamai and interfacing with databases like MySQL and MongoDB.

### Web Developer

*Time4 Media*

☀ New York, NY  August 2006 - October 2006

- Created and maintained Vignette CMS templates with Tcl/HTML/CSS.

### Front End Web Developer

*Morgan Stanley*

☀ New York, NY  May 2001 - August 2006

- Created and maintained web pages with in-house or external designers, including templates for Morgan Stanley's internal and external sites. Tasks involve updating or coding pages for the global corporate website, recruiting site, and other internal and external platforms. Frequently used languages include HTML, JavaScript, JSP, XSLT, and Perl for CGI.