

# Paula Goyanes

FULL STACK SOFTWARE ENGINEER | [goyanespaula.github.io](https://github.com/goyanespaula)

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## EXPERIENCE

### Course Report – Full Stack Software Engineer (Contract), Ruby on Rails

2018

- \* Refactored backend functionality to more accurately match 300,000+ monthly users to schools. The feature included rewriting the matching algorithm, expanding the database schema for the required queries, and restructuring controller logic
- \* Improved website performance (20% faster page loads) through various optimizations, including the elimination of unnecessary N+1 database queries
- \* Added 20+ CSS fixes and mobile platform optimizations, including building a sleek, responsive view for school outcomes on pages with 500,000+ monthly views
- \* Implemented client and server side functionality for adding email subscription options, including a responsive restyling of the site's footer and integration with MailChimp

### Encobridge – Education Consultant, Web Developer (Contract)

2017 - PRESENT

- \* Helped to design and create the Encobridge business website
- \* Drafted course material for engineering continuing education classes. Topics included basic infrastructure construction, quality management, and ethics & responsibilities
- \* Created and organized the framework and materials necessary for business certification as continuing education & CTQP providers by the State of Florida and Miami Dade

### Clear Labs – Research Associate & Quality Manager

2015 - 2017

- \* Trained on and carried out all steps of the DNA sequencing workflow, including representative subsampling, DNA extraction, amplification, and next generation sequencing
- \* Expanded the platform with GMO quantification, microbiome analysis and WGS serotyping of pathogens by building and executing R&D projects
- \* As Quality Manager played a key role in obtaining and maintaining ISO 17025:2005 accreditation and compliance, writing 80%+ of our standard operating procedures (SOPs)

### Genentech – Manufacturing Bioprocess Technician

2014 - 2015

- \* Produced and purified biotherapeutic medicines (biologics) derived from genetically modified *E.coli* cells while upholding compliance to good manufacturing practices (cGMPs)
- \* Executed and troubleshooted commercial manufacturing tasks such as reagent prep, protein purification, sterilization, and interfacing with automated systems such as PLCs
- \* Setup and executed CIP, SIP, column chromatography and buffer solution operations

### Dr. Hughes Fruit Fly Genetics Lab – Laboratory Technician

2011 - 2012

- \* Researched the genomic determinants of life span using biochemical assays
- \* Designed & ran experiments determining ecological/genetic factors in sexual selection
- \* Supervised tasks conducted by volunteers such as matings/transfers, ensuring good laboratory practices (GLP)

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Location: San Francisco, CA

## SKILLS

### Engineering

JavaScript • Python • HTML • CSS  
Node.js • Express • MongoDB • Flask  
React • Redux • Ruby on Rails  
PostgreSQL • Relational DBs • Heroku

### Design

Adobe Illustrator • Adobe InDesign  
Adobe Photoshop • Adobe Acrobat  
Adobe Animate

### Science

Aseptic Technique • cGMP  
Gel Electrophoresis • PCR  
GC/HPLC Chromatography  
Next Generation Sequencing

### Language

Spanish • English  
Interpretation • Translation

## OTHER EXPERIENCE

### Liberty U.S.A. Immigration – Translator, Interpreter, Aid

2006 - PRESENT

Liberty Immigration is committed to giving individuals their best chance at contributing to & diversifying our society by aiding them in the path to American citizenship.

As a volunteer I:

- \*Translate Birth, Baptismal, and Marriage Decrees for clients with income levels below the Federal Poverty Guidelines

- \*Assist in determining paths to naturalization, having helped over 400 clients

## EDUCATION

### Rithm School

Web Development Immersive

**Florida State University** - 3.9 GPA

Bachelor of Science - Biochemistry

Bachelor of Science - Biology

Minors - Physics, Spanish Literature