

# Paula Goyanes

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## EXPERIENCE

### **Course Report – Full Stack Web Developer (Contract)**

2018

- \*Refactored backend functionality for matching 100,000+ monthly users to schools by optimizing the database schema for the required queries, optimizing the matching algorithm, and restructuring controller logic
- \* Improved website performance (20% faster page loads) by using Ruby on Rails and SQL tech to eliminate unnecessary N+1 database queries and improving caching
- \*Built functionality for viewing custom outcomes on school pages (400,00+ users/month) using a sleek, responsive design
- \* Implemented client and server side functionality for expanding email subscription options, including a responsive restyling of the website's main footer

### **Encobridge – Compliance & Education Consultant, Software Developer (Contract)**

2017 - PRESENT

- \*Designed and developed the Encobridge business website using frontend technologies
- \*Designed 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

- \*Carried out & trained on 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 over 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 and conducted experiments determining ecological/genetic factors in sexual selection
- \*Supervised tasks conducted by volunteers such as matings/transfers, ensuring good laboratory practices (GLP)

## EDUCATION

### **Rithm School**

Full Stack Web Development

### **Florida State University - 3.9 GPA**

Bachelor of Science - Biochemistry  
Bachelor of Science - Biology  
Minors - Physics, Spanish Literature

## SKILLS

### **Engineering**

JavaScript • Python • HTML • CSS  
Node • Express • MongoDB • Flask  
React • Redux • Ruby on Rails

### **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

## LOCATION

San Francisco, CA