JULIAN EDWARD REYES

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BIOTHERAPEUTIC DRUG DEVELOPMENT | MOLECULAR BIOLOGY

Analytical Chemistry| Software Development

UC-Davis graduate with a bachelor of science in neurobiology, physiology, and behavior, and a minor in computer science; seeking a full-time position in biotech, chemistry, bioinformatics, biology, life sciences, software development or a related field.

PROFESSIONAL EXPERIENCE

Pfizer | La Jolla, CA | November 2021 – December 2023 (2 years)
Protein Purification Scientist

- Support protein production for the BioMedicine Design Biotherapeutics Discovery Group in the R&D space discovering biotherapeutic antibody lead drug candidates
- Perform protein affinity and size exclusion chromatography purifications via FPLC (AKTA Avant)/batch binding/magnetic beads (Genscript SA Plus) to purify biotherapeutic antibody drug candidates and antigens
- Protein characterization and QC analysis on finalized purified protein constructs such as analytical SEC via HPLC (Agilent 1200), SDS-PAGE/cGE (LabChip Touch GX), endotoxin analysis (Charles River Endosafe NexGen MCS), Mass Spec (Bruker), and SEC-MALS (Wyatt MiniDawn/Optilab/Treos)
- Protein conjugation including biotinylation and fluorescent marker compounds
- Buffer formulation optimization to prevent aggregation/precipitation, and optimize freeze/thaw stability
- Support for the molecular biology expression team including molecular cloning, transfection (CHO, Expi293), transformation, DNA plasmid preparation, DNA gel purification, Gibson assembly, and PCR
- Perform protein titer (Agilent HPLC 1200) and cell viability analyses (Beckman Coulter Vi-Cell XR)
- Method development for HPLC and FLPC instruments
- Ordering vector DNA sequences from vendors and other general lab equipment/consumables
- Vector sequence confirmation using programs such as Geneious
- Routine lab and equipment maintenance following established protocols
- Careful and accurate documentation of laboratory experiments via electronic notebook
- General lab operations such as changing and maintaining columns, autoclaving, and buffer preparation

Helix | San Diego, CA | August 2021 – November 2021 (3 mo.)
Clinical Lab Technician

- Perform COVID-19 sample processing and accessioning
- Perform Automated RNA extraction
- Perform PCR-based genetic testing in accordance with standard operating procedures
- Perform routine housekeeping functions according to departmental standard operating procedures
- Preventive maintenance of laboratory equipment
- Quality testing of reagent shipments

- Review, update and revise Standard Operating Procedures.
- Careful and accurate documentation of work

Coastal Analytical | San Diego, CA | February 2021 – August 2021 (8 mo.)

Analytical Chemistry Lab Technician / Microbiology Analyst

- Run tests to examine content of heavy metals, mycotoxins, microbes, pesticides, potency, water activity, and solvents of agriculture-based consumer products in accordance with state regulations
- Setup, prepare, troubleshoot, and run Gas Chromatography Mass Spectroscopy, Liquid Chromatography Mass Spectroscopy, HPLC, Atomic Absorption Spectroscopy, qPCR, and gel electrophoresis PCR
- Determine the structure, composition, and nature of substances by examining and identifying their various elements or compounds via chemical analysis
- Conduct analytical analysis of specified samples using the appropriate analytical instruments, collect, and analyze the data using the scientific data analysis method, document the results, and work with partners to resolve the technical challenges and issues
- Study the relationship and interactions among the parts of compounds
- Assist with quality control and quality assurance practices
- Develop, write, and update Standard Operating Procedures as needed

Self-Employed Web Engineer Contractor | San Diego, CA | June 2020 – July 2022 (18 mo.)

Web Designer, Full Stack Developer, & Advertising/Marketing Management

- Responsible for creating websites from the ground up including design, wireframes, implementation, web hosting, domain name management, and any other web programming functionalities
- Clients include private equity investment firm WGD Capital

Unearth Campaigns | Sacramento, CA | October 2019 – June 2020 (8 mo.)

Full Stack Web Developer

- Full stack developer for Unearth Campaigns, a political campaigns outreach company
- Responsible for backend and front-end web development for creating and maintaining websites for the contracted clients.
- Helped create proprietary web software application for company and clients
- Designed and implemented front end websites using modern, sleek designs with up-to-date UI and UX standards
- Acquired and hosted domains on secure server networks
- Most common programming languages include PHP, JavaScript, mysql, HTML, and CSS implemented on WordPress

EDUCATION

University of California – Davis, Davis, CA: 2020
Bachelor of Science – Neurobiology, Physiology, and Behavior
Minor – Computer Science

- Relevant Coursework: Bioinformatics, Genetics & Gene Expression, Organic Chemistry, Biochemistry, Neurobiology, Physiology, Animal Behavior, Exercise Physiology, Web Development, Data Structures, Algorithms, Discrete Mathematics, Statistics, Calculus, Video Game Development, Programming Languages

DETAILED REFERENCES AVAILABLE ON REQUEST