

# Joman Diec

joman.biotech@gmail.com ❖ (310) 619-6916 ❖ Los Angeles, CA

---

## SKILLS

Portfolio Page: [jomandiec.github.io](https://jomandiec.github.io)

- **Coding Skills:** Python, Javascript, Django, HTML5 & CSS3, Bootstrap 4, SocketsIO, Git, Asana, Agile Method, AJAX, Docker, Postgres, Stencil JS, Liquid, BigCommerce, Shopify, Unix, Bash, JSON, Firebase, React.js
- **Lab Skills:** HPLC, LC-MS, DNA/amino acid sequence analysis, BLAST, Electron microscopy (TEM/SEM), Fluorescent microscopy, Fatty acid extraction, Gel electrophoresis (inc. SDS-PAGE), GLP, GMP, High throughput screening, FT-IR, Mammalian cell culture, ELISA, Microarray, Monoclonal antibody production, PCR/RT-PCR, Real-time PCR, Plant tissue culture, Recombinant DNA techniques, DNA/RNA isolation/purification, Thin layer Chromatography, UV/Vis spectrophotometry, Aseptic technique, Chromeleon, Molecular biology, BSL-2 lab Critical Thinking
- **Languages:** English, Chinese (Cantonese- speaking and reading)

---

## WORK EXPERIENCE

### Popcorn Robot

January 2023 – Present

*Full-Stack Engineer*

*Los Angeles, CA*

- Worked in a team of 4 people using Agile Scrum Methodology consulting with team lead to determine issues that needed to be addressed and feedback to return to client
- Transitioned client site from v2 to v3 servers of the BigCommerce platform minimizing downtime and disruption to customer purchases
- Conduct bulk data modifications to prepare for version change using a combination of BigCommerce tools and Excel to convert customer and product databases into a format compatible with the new version of the platform
- Developing custom JavaScript features within the Stencil framework that allow real-time updating of store checkout without need of page refresh
- Add custom Javascript to pages that conditionally formats pages based on customer group to control access to specific features and product options

### Mar 2022 – Jan. 2023

- Declined an offer to move when company announced it was relocating to Dallas
- Helped wrap up operations in Los Angeles before collecting severance bonus and PTO, leaving company on good terms
- Took extended break during which I continued improving my skills in programming

### Sunrider International

May 2008 – Mar. 2022

*Biotechnology Researcher, R+D dept.*

*Los Angeles, CA*

- Saved company from making costly multimillion dollar investment after traveling to Wuxi, China to evaluate technology purchase and the feasibility of setting up a biofermentation lab and production facility in the United States
- Developed, prepared, and tested formulations of new and existing products in response to customer and owner feedback
- Performed long-term stability tests on various food, personal hygiene, and cosmetic products using HPLC, MS, FT-IR, TLC, GC, and various chemical assays in accordance to FDA regulations and their foreign equivalents
- Wrote/edited SOP's for testing methods of new compounds of interest to said regulatory agencies
- Performed various tests on a variety of compounds from suppliers to determine if they meet USP, FCC, and/or ACS specifications for purity and suitability for commercial use
- Trained new employees in company procedures and lab equipment/techniques
- Provided general maintenance to the lab including instrument calibration/upkeep, purchase of equipment/consumables, and disposal of hazardous chemicals

### Walter Reed Army Institute of Research

July 2005 – May 2008

*Graduate Intern, Molecular Pathology dept.*

*Silver Spring, MD*

- Used cDNA microarrays to perform an analysis of gene expression in cells from host infected with encephalitis or anthrax leading to development of personal early detection systems for soldiers in the field
- Isolated and analyzed the RNA for the microarray from host cells for quantity and quality using Agilent bioanalyzer, determining if they were suitable for further experimentation
- Processed samples collected for trials of vaccine for dengue fever. Started and maintained cell cultures for use in breast cancer studies

## **CODING PROJECTS**

---

### **Bar Trivia App**

**November 2023- Ongoing**

- Developed a real-time trivia night application using React.js and Firebase, enabling instant updates of questions, scores, and leaderboards for a seamless and engaging user experience
- Implemented Firebase Authentication to ensure secure user registration and login processes.
- Integrated Firestore for efficient backend data management, handling user profiles and trivia questions
- Designed and implemented a visually appealing and responsive user interface using Bulma CSS, ensuring a consistent and user-friendly experience across various devices.

### **Wavelength**

**August-October 2022**

[github.com/JomanDiec/wavelength/tree/master/app](https://github.com/JomanDiec/wavelength/tree/master/app)

- Python-based multiplayer game played on mobile devices using Django, Javascript, and SocketIO technologies
- Host is able to control when game starts and trigger page load for all players when ready
- Slider feature that uses SocketIO to update its position in real time across multiple devices
- Built by a team of 4 people using Agile method

### **Haunted Mansion**

**July- December 2022**

[github.com/JomanDiec/popcorn-robot/blob/master/haunted\\_mansion/templates/haunted\\_mansion.html](https://github.com/JomanDiec/popcorn-robot/blob/master/haunted_mansion/templates/haunted_mansion.html)

- Single player point-and-click Javascript game in which the player navigates through a haunted mansion
- Dynamically hide and display panels according to JS events triggered by the player
- Random encounter feature that can trigger anywhere in the game and requires a specific random input to escape

### **AskIt**

**April-July 2022**

[github.com/JomanDiec/popcorn-robot/tree/master/ask\\_it](https://github.com/JomanDiec/popcorn-robot/tree/master/ask_it)

- Python-based mockup version of Reddit where users can ask questions and get responses from other users
- Implemented Django authentication for registering and managing users
- Created Custom Template Tags to customize template rendering (upvotes)
- Implemented feature where user can upload an image to the server to be included with a post
- Searchable by post title or post content

### **Task List**

**March 2022**

[github.com/JomanDiec/popcorn-robot/blob/master/exercises/templates/exercises/task\\_list.html](https://github.com/JomanDiec/popcorn-robot/blob/master/exercises/templates/exercises/task_list.html)

- Python-based HTML app for making to-do lists
- Form that allows user to add tasks and set priority level
- Features that allow user to edit tasks, assign to complete/incomplete list, and delete tasks

### **Phone Book**

**March 2022**

[github.com/JomanDiec/popcorn-robot/blob/master/exercises/templates/exercises/phone\\_book.html](https://github.com/JomanDiec/popcorn-robot/blob/master/exercises/templates/exercises/phone_book.html)

- Python-based HTML app for keeping track of contacts
- Form that allows user to add new contact
- Features that allow user to edit, delete, or view existing contacts
- Searchable by contact name

## **EDUCATION**

---

### **Popcorn Robot University**

*Full Stack Web Development*

*Los Angeles, CA*

### **Pennsylvania State University**

*MS, Biotechnology*

*State College, PA*

### **Rutgers University**

*BS, Biotechnology*

*New Brunswick, NJ*