

Leo Lai

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Projects

Potion Master (URL: potionmaster.info | github.com/leolai2010/Python_Project)

- E-commerce website built based on personal toxicology research in traditional medications to examine harmful substances. Application provides herbal medication benefits allowing consumers to gain more information on medicinal herbs as well as a full-on consult message board system to seek additional help. Demo item cart and transaction system are in-place
- **Technology:** Python, Django, SQLite, Stripe API

Flight Headed (URL: flight-headed.com | github.com/leolai2010/Java_Project)

- Educational website and mobile application based on clinical research of alcohol metabolic rate by performing Controlled Drinking Study in collaboration with LAPD. Application comes with educational information as well as a built-in Blood Alcohol calculator. Users are able to store alcohol consumption amount and personal information in application database. Mobile application is in progress and will have tracking, camera abilities to analyze physical condition while under the influence. Using React Native application will be available to both android and iOS platforms.
- **Technology:** Java, Spring Boot, MySQL, React.js

Primal Brain (URL: primalbrain.info | github.com/leolai2010/MEAN_Project)

- Toxicology research-based application modeled after thesis on Drug Exposure on Freshwater Planarians with Professor Dr. Jay R. Vargas. Provides general information on standard of procedure, experimental design, as well as hypothesis. Storing additional drugs and planarian paths using CRUD persistent storage technique for future examination. Data collected are analyzed and visually represented within the application as well as analysis performed by built in machine learning analyzer for path prediction in correlation with possible drug outcome.
- **Technology:** Mongoose, Express.js, Angular 6, Node.js, TensorFlow

Experience

Laboratory Data Analyst, Sun Clinical Laboratories, July 2017 – April 2018

- Patient sample processing, labeling specimen, distribution to appropriate department, and preparation for testing up to thousands of patients a day.
- Perform sample testing and analysis for hepatitis panel, therapeutic drug panel, and tumor markers, CBC, PT, INR, & PTT rate, ESR values and A1C levels.
- Maintain laboratory equipment/instrument competency/calibration passing QA/QC inspection
- Data entry of results, providing data analysis and visualization of instrument performance for passing Department of Public Health inspection.

Toxicology Data Analyst, Los Angeles Police Department, July 2016 – January 2017

- Data collection on Enzyme-Linked Immunosorbent Assay (ELISA) in accordance to SWGTOX to validate instrument analysis on Zolpidem (Scheduled IV) and Carisoprodol (Scheduled IV)
- Chemical data analysis and maintaining laboratory instrument competency and calibration following standard operating procedure accredited by ASCLAD/LAB
- Data entry, submission, and visualization using software approved by QA/QC department. Successful completion of validation.

Medical Data Analyst Intern, Taoyuan General Hospital, June 2013 – August 2013

- Assisted in patient sample collection and data analysis to help in determine disease process, infection rate, and epidemiology statistics
- Trained in general clinical skill, equipment management, and administrative duties to assist medical professionals on routine patient medical procedures

Education

California State University, Los Angeles May 2017

- Master of Science in Forensic Science – Toxicology

University of California, Riverside June 2014

- Bachelor of Science in Biochemistry

Coding Dojo – Burbank June 2018

- Full-stack Developer Certification

Technical Skills

- Programming Languages
 - HTML5/CSS3
 - JavaScript
 - Python
 - Java
 - TypeScript
- Frameworks
 - Flask
 - Django
 - Spring Boot
 - Express.js
 - Angular 6
 - TensorFlow
 - Redux
 - React.js
- Servers
 - Apache Tomcat
 - Node.js
- Databases
 - MySQL
 - SQLite
 - MongoDB
- Development Tools
 - Postman
 - Version Controller: Git & Github
 - Design Tools: Bootstrap & Materialize
- Cloud Technologies
 - AWS
 - GCP
- Libraries & API
 - Socket.io
 - jQuery
 - Mongoose
 - Stripe API
 - Python Channels

Laboratory Technology

- FTIR
- GC/MS
- ELISA
- Microscopy
- Hematologic Analyzer
- Centaur Immunoassay

Additional Skills

- Bilingual: English and Mandarin