

# JOMEL BAUTISTA, P.E.

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Portfolio | [jomelb.com](http://jomelb.com)

Github | [github.com/jomelbautista](https://github.com/jomelbautista)

Linkedin | [linkedin.com/in/jomelb](https://linkedin.com/in/jomelb)

## EDUCATION & CERTIFICATES

- Modern React with Redux** | Course Certificate 02/23-04/23
- Improved understanding of React architecture to build and improve reusability of custom React components
  - Applied Redux Toolkit features such as 'configureStore' and 'createSlice' functions to simplify Redux processes
- JavaScript Algorithms and Data Structures Masterclass** | Course Certificate 12/22-02/23
- Completed course assessments in Big O notation, time/space complexity, search algorithms, and data structures
- JPMorgan Software Engineering Virtual Experience on Forage** | Certificate 12/22-01/23
- Built financial analysis tools utilizing Python, JavaScript, TypeScript, Git, and Github with company framework
- Coding Dojo Coding Bootcamp** | Full-Stack Developer Certificate 12/21-06/22
- Completed coursework, projects, and examinations in web fundamental, MERN, and Python/Flask technologies
- California State Polytechnic University, Pomona (CPP)** | Bachelor of Science, First-Generation Student 09/12-06/17
- Awarded best oral presentation at 5th Annual CPP Research, Scholarship, and Creative Activities Conference

## WORK EXPERIENCE

- Valley Water (Formerly Santa Clara Valley Water District)** | Associate Engineer, Project Manager 05/22-09/22
- Led design deliverables for 3 projects (\$8-\$23 million in construction contract size) to distribute drinking water
  - Developed scalable excel workbooks to efficiently evaluate and validate hydraulic calculations
  - Standardized workflows for engineers by writing engineering calculations and permitting process documentation
- Valley Water (Formerly Santa Clara Valley Water District)** | Assistant Design Engineer I & II 06/16-05/22
- Writing SQL expressions on GIS software to generate input parameters to project engineering calculations
  - Streamlined engineering drafting process by developing AutoCAD script files to populate data

## TECHNICAL SKILLS

- Languages** | JavaScript, TypeScript, Python, C++, HTML, CSS
- Frontend** | React, Redux, jQuery, Bootstrap, Tailwind
- Backend** | MongoDB, Node.js, Express, Flask, Django, MySQL, JSON WebToken (JWT), REST API
- Other** | Git, Github, React-Testing-Library, Jest, NPM, Postman, MySQL Workbench

## TECHNICAL PROJECTS

- HireMe Mock Interview Web Application** | Frontend Developer [Github](#) | [Demo](#)
- Web application for interview practice in various career fields* React | TypeScript | Redux Toolkit
- Created global app state by configuring Redux store with listener middleware outside of component hierarchy
  - Developed clear methods for changing state by creating 3 slices with unique initial states and reducer logic/action
  - Enhanced code readability and eased error identification by defining TypeScript interfaces for object properties
  - Implemented dynamic form entry fields to allow for variable number of inputs when generating custom sets
- South Bay Rehab and Performance Clinic Business Website** | Frontend Developer [Github](#) | [Site](#)
- Single-page responsive website for a local private chiropractic clinic* React
- Created a scalable website by developing reusable components capable of handling variable types of props
  - Designed modularized code structure to replace the original code structure of a singular HTML and CSS file
- Lindsay's Good Dog Services Business Website** | Frontend Developer [Github](#) | [Site](#)
- Single-page responsive website for a small pet grooming business* React | TypeScript
- Generated 855 impressions in first month and the number 2 search position by optimizing code SEO performance
  - Developed a form for contacting the business by implementing best practices of React controlled components
- Youth Basketball Organization Web Application** | Full-Stack Developer [Github](#) | [Demo](#)
- Web application with a protected content management interface* React | Express.js | MongoDB | Node.js
- Coded a custom content management interface for organization admins to perform CRUD functionality of 5 data models using MERN stack with supporting technologies such as React Context API, Mongoose, and Axios
  - Integrated Cloudinary API to handle image upload/storage by configuring the API protocol in backend endpoints
  - Protected application with authentication/authorization via middleware with Bcrypt, JWT, Cookie, and user context