

Virginia Freitas

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EDUCATION:

- **Full Stack Web Development Coding Bootcamp** (Completed Summer 2023) – University of California, Berkeley (CA).
- **Master of Science, Engineering Management** (Complete Fall 2023) – International Technological University (CA).
Courses: Python, Data Sciences Applications Using Python, Principles of Engineering Management, Organizational Management, Project Management, Predictive Analytics for Business Strategy, Product Management, Technology Entrepreneurship, Blockchain.
- **Bachelor of Science, Civil Engineering** (Completed Spring 2019) - San Francisco State University (CA) and UFMG (Brazil).

SKILLS:

- **Computer:** **HTML5** | **CSS** | **JavaScript** | **React** | **Python** | **Nodejs** | **SQL** | | Developer Tools | Web API | Server Side API | Third Party API | Object-Oriented Programming (OOP) | Bulma | Express.js Object-Relational Mapping (ORM) | Model-View-Controller (MVC) | Computer Science for JavaScript | NoSQL | Progressive Web Applications (PWA) | MERN | State | Microsoft Excel Advanced | Python for Data Sciences | Tableau | MySQL | Microsoft Office | MS Project | Primavera P6 | AutoCAD | Revit | Bluebeam | PlanGrid
- **Languages:** English (fluent) | Portuguese (native) | Spanish (intermediate)

FULL STACK WEB DEVELOPMENT EXPERIENCE:

- Used ORM (Object-Relational Mapping) in MVC (Model-View-Controller) frameworks to optimize database interactions and enhance application structure.
- Incorporated MERN (MongoDB, Express.js, React, Node.js) stack expertise to develop dynamic web applications for enhanced UX.
- Implemented APIs to communicate with the back-end services for data flow.
- Created wireframes based on UI/UX principles to design interactive web pages.
- Optimized website performance by analyzing and improving load times and reducing server requests.
- Integrated third-party APIs and libraries to enhance website functionality and user experience.
- Utilized version control (Git) to manage codebase and coordinate with team members effectively.
- Actively participated in code reviews, group pseudocoding and pair programming activities.
- Projects (see my GitHub & portfolio for more):
 - **Widget Wizard:** application where users can choose from a list of widgets and customize their dynamic widgets dashboard.
 - **Surf Report:** application for surfers to search for current surf conditions and save their favorite beaches.
 - **Bookflix:** application for book and movie recommendations based on third party APIs and user answers to questions.
 - **Weather Forecast API:** application for real-time and five-day weather forecast that also stores the history of searched cities.
 - **Workday Schedule:** application for users to save and delete events for each business hour of a day using local storage.
 - **Code Quiz:** application where users respond to a coding quiz and obtain a score at the end using JavaScript and jQuery.

WORK EXPERIENCE:

- **Project Engineer** – Power Engineering Construction (Bay Area, August 2019 – May 2023)
 - Management, technical and administrative support on complex heavy civil, mechanical and marine projects, such as:
 - **Chevron MOTEMS** (Richmond, January 2023 – May 2023) – U\$ 28 mi contract.
Over 300 concrete repairs and challenging overwater scaffolding designs at the Chevron Refinery main wharf foundation.
 - **SVCW RESCU Program** (Belmont, September 2020 – February 2023) – U\$15 mi contract.
Installation of 36" diameter sanitary sewer gravity pipeline through the extent of 1.5 miles with tunnelling work.
 - **SVCW Outfall** (Redwood City, October 2019 – September 2020) – U\$3.7 mi contract.
Emergency design and construction of steel hanging structure to address 63" effluent outfall pipe settlement.
 - **WETA Ferry Terminal Expansion Project** (San Francisco, August 2019 – December 2019) – U\$80 mi contract.
Phase 2 of expansion and rehabilitation of the San Francisco Bay Area ferry service and emergency service facility.
 - Excel expertise in tracking project budget and progress through complex spreadsheets for data analysis and data visualization.
 - Managed submittals, RFI's, production reports and 6 Week Ahead Schedules, procurement, material take-off, quotes and orders.
 - Proficient in structural design, CAD drawings, reading project plans, specifications, and engineering standards for compliance.
 - Strong leadership skills, managed diverse teams of craftsman, interns, trained new project engineers and reported to manager.
- **Project Manager Assistant** – Concore Development Group - (San Francisco, June 2018 - May 2019)
 - Managed renovation of a spa Drip Doctors, a bar Brewing Coop, a suits shop KnotStandard and a restaurant Poki Time.
 - Controlled permits, inspections, schedules, contracts, RFIs, budget and profit projections.
- **Civil Engineering Intern** – INTECH Engenharia, Inovação e Tecnologia - (Belo Horizonte, July 2016 - March 2017)
 - Expanded client base through targeted research for reinforced concrete recovery demand.