

# Brett Albright

## Software Engineer

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### Technical Skills and Tools

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**Strong:** JavaScript, TypeScript, Node.js, React, PostgreSQL, Express, PHP, HTML5, CSS3, Bootstrap 5, REST APIs, Vite

**Experienced:** Java, C++, Python, Go, MySQL, Oracle SQL, Tailwind CSS, Webpack, Babel, DynamoDB, MongoDB

**Tools:** Git, Github, Glitch, VSCode, Heroku, AWS, Amazon S3, Figma, Slack, Tableau, Zoom

### Experience

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#### Silicon Beach Solutions LLC., Newport Beach, CA

##### *Project Lead Developer*

June 2024 - Present

- Managed the main <https://www.hyundaiusa.com/us/en/test-drive> website including content updates, maintenance, and technology updates using AWS S3, React, Redux, NodeJS, Sequelize, and Postgres
- Implemented Database Solution for the Hyundai Build and Search Inventory application including Database Design and implementation in DynamoDb for nationwide dealer inventory
- Provided Technical Planning assistance and oversight for the Hyundai Evolve+ front-end application including data flow and architecture based on existing mobile app

#### LearningFuze LLC., Irvine, CA

##### *Senior Instructor / Developer*

June 2019 - Present

- Managed the main LearningFuze.com website including content updates, deployments, maintenance, and technology updates using AWS, PHP, Digital Ocean, Github Actions, and NPM
- Instructed students in programming in React, building servers using Node.JS and Express, building and querying databases in PostgreSQL, and provided technical interview practice
- Implemented updates to the custom Learning Management System for improved content delivery to students, including performing database migrations
- Provided project management for student senior projects, including feature development, database design, wireframe creation, issue tracking, and code assistance
- Developed and implemented iterative curriculum updates including concepts like React hooks, Rest APIs built using Express, OS level programming in Node.js, Unit Tests, and Data Structures
- Managed and oversaw company tooling including Google Suite accounts, Github accounts, Slack Accounts, AWS accounts, etc

##### *Assistant Instructor / Developer*

Jun 2018 - June 2019

- Provided personalized guidance to students on fundamental programming concepts, fostering critical thinking by guiding students to discover solutions through thought-provoking questions rather than simply providing answers
- Fostered a collaborative agile learning environment by facilitating interactive post-exercise Q&A sessions, encouraging students to both ask and answer exercise-specific questions in a constructive and efficient manner needed for the workplace
- Provided one on one and group tutoring sessions for students to get a deeper dive into concepts like constructing functions, writing readable code, proper code commenting, and other concepts on demand

- Created bonus exercises and study guides for students for continued practice on more in-depth concepts like the use of higher order functions, writing good pseudocode, and website design
- Implemented website and curriculum updates per specifications provided by my senior instructors

## **Legacy Post Acute Rehab, San Bernardino, CA**

### ***Respiratory Therapy Night Manager***

Mar 2010 - Feb 2018

- Managed a department of 6 professional Respiratory Therapists for a 115 bed Post Acute Rehab center with an average of 60 ventilator dependent patients
- Displayed initiative in revamping the inventory system for the Respiratory Department, resulting in decreased waste and optimized utilization of equipment, thereby enhancing operational efficiency
- Established comprehensive policies and procedures for the Respiratory Department, demonstrating leadership by ensuring alignment with state regulations and surpassing standards for patient care
- Collaborated closely with the wound care department to develop and implement strategies aimed at minimizing wound occurrence among ventilator-dependent patients, resulting in decreased hospitalizations and enhanced patient outcomes
- Initiated Biohazard equipment change policies to reduce patient cross infections in multi patient rooms

## ***Applications Developed / Designed***

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### **Hyundai Drive**

*Provided security and efficiency updates in the maintenance cycle to a large-scale production application for scheduling vehicle test drives*

- Managed website deployments including content updates, technology maintenance updates, pre-live site update testing, and deployment host transfers
- Removed PII data from front end app data flow and upgraded back-end server to accommodate handling of sensitive data
- Upgraded application functionality to allow users the option of verifying their driver's license information via desktop and mobile app
- Decreased app reliance on redux state by moving global state data to local state to reduce code complexity

### **Hyundai Build and Search Inventory**

*Designed Dynamo DB solution for large scale inventory, dealer, and zip code build and search application*

- Designed and implemented Dynamo DB database solution for large-scale low-latency vehicle searches with inventory of more than 300k vehicles and dealer network with more than 800 nationwide dealers
- Worked with the Java development team to tune queries for sub one second searches on vehicle data based on radius and zip code input from users
- Designed Blue/Green database solution for preventing database downtime during nightly vehicle inventory updates
- Created workflows for Dynamo DB AWS s3 imports to massively reduce costs on inventory updates

### **LFZ- LMS**

*Developed and maintained the LearningFuze Learning Management System to efficiently manage student assignments.*

- Implemented navigation enhancements to more efficiently update student profile information
- Performed PostgreSQL database migrations to extend student assignment tracking functionality
- Assisted in migration from Heroku to Digital Ocean hosting to reduce technology costs

- Responded to site issues to maintain application uptime to prevent negative student experiences

## LFZ- Self-Paced-Python

*Created the LearningFuze Self-Paced Python course to enable prospective students and alumni to enhance their Python programming skills.*

- Coded dozens of topical exercises built to provide students with topic introduction, documentation, and exercise instructions
- Collaborated on application design and implemented design requirements via MDX
- Developed exercise structure and implemented application tools per company style requirements
- Provided extensive testing in both local and deployed environments including responsive design checks, multi-browser compatibility, and application functionality

## ***Education***

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<b>Bachelors of Science in Computer Science</b> , Fort Hays State University Kansas,	Expected: 2026
<b>Full-Stack Web Development Program</b> , LearningFuze, Irvine, CA,	2018
• 800+ hours of programming(60+ hours/week) in a simulated agile work environment	
<b>Associate Degree in Languages and Media</b> , Moreno Valley College, Moreno Valley, CA,	2017
<b>Associate Degree in Respiratory Therapy</b> , Concorde Career College, San Bernardino, CA,	2006