# Brett Albright

## Software Engineer

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## *Technical Skills and Tools*

**Strong:** JavaScript, TypeScript, Node.js, React, PostgreSQL, Express, PHP, HTML5, CSS3, Bootstrap 5, REST APIs, Vite
**Experienced:** Java, C++, Python, MySQL, Oracle SQL, Tailwind CSS, Webpack, Babel, MongoDB
**Tools:** Git, Github, Glitch, VSCode, Heroku, AWS, Amazon S3, Figma, Slack, Tableau, Notion, Linear, Zoom

## *Experience*

**LearningFuze LLC.,** Irvine, CA
*Senior Instructor / Developer*                                                               May 2021 - 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

*Junior Instructor / Developer*                                                               Jun 2019 - May 2021
- Instructed students through the junior side curriculum, covering JavaScript, TypeScript, HTML, and CSS, to build foundational web development skills
- Guided students in developing proficiency in Dynamic DOM creation, Responsive Web Design, Asynchronous API integrations, Whiteboard Interviews, and the usage of Git and GitHub for collaborative development
- Performed targeted company website updates including design and copy changes, server updates, redeployments, and Learning Management integrations
- Coordinated students hackathons and group projects, and provided instruction in a fast paced and dynamic learning environment
- Implemented iterative curriculum updates based on student feedback and experiences to more clearly discuss complex topics like the use of this in JavaScript, JavaScript closures, and thinking in OOP
- Created graphic designs for the website via Adobe Photoshop and successfully normalized images on the company website resulting in reduced loading times
- Displayed flexibility and adaptability by developing the remote education program instituted during the covid pandemic to move learning to a remote experience

*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*

### LFZ- Website
*Redesigned the LearningFuze company website to streamline and increase student enrollment for various programs and enhance access to school information.*
- Managed website deployments including content updates, technology maintenance updates, pre-live site update testing, and deployment host transfers
- Implemented PHP page templates to speed up frequent routine updates including program dates, program costs, curriculum changes, and ad banners
- Constructed several sections of the website including, part time program pages, about us page, JavaScript Prep course pages, info-session pages, etc
- Assisted in integrating the company content management system into the website so that administration staff could perform common website 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*

**Bachelors of Science in Computer Science,** Fort Hays State University Kansas,     Expected: 2025
**Full-Stack Web Development Program,** LearningFuze, Irvine, CA,                                2018
- 800+ hours of programming(60+ hours/week) in a simulated agile work environment
**Associate Degree in Languages and Media,** Moreno Valley College, Moreno Valley, CA,     2017
**Associate Degree in Respiratory Therapy,** Concorde Career College, San Bernardino, CA,     2006