

# James Littlefield

Senior Full Stack Developer

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## Professional Summary

Accomplished Senior Full Stack Engineer with 7+ years of experience architecting and delivering enterprise-grade web applications for global organizations. Specialized in the Vue ecosystem with proven expertise leading complex migrations, implementing AI integrations, and building scalable solutions using Node.js, Express.js, and NoSQL databases. Track record of project leadership on mission-critical IBM applications serving thousands of users worldwide. Deep experience in internationalization, currency conversion systems, form validation frameworks, and CI/CD practices. Leverages regular use of Cursor AI with Claude for enhanced development productivity and code quality. Hands-on expertise deploying production applications to AWS cloud infrastructure using ECS for container orchestration, EC2 instances, Route 53 for DNS management, and CloudFront for content delivery. Successfully mentored junior developers while driving company growth from Series A to Series B funding. Expert in transforming legacy systems, optimizing database performance, and implementing automated workflows that eliminate hundreds of manual support hours.

## Technical Skills

### Programming Languages:

JavaScript (ES6+), TypeScript, Python

### Frontend Technologies:

Vue.js (Vue 2 & 3), React, Vuetify, Vuex, Pinia, HTML, CSS, Sass, Bootstrap, Carbon-vue

### Backend Technologies:

Node.js, Express.js, REST APIs, GraphQL, FastAPI

### Databases & Storage:

PostgreSQL, MongoDB, Cloudant DB, NoSQL

### Cloud & DevOps:

Docker, CI/CD, GitHub Actions, Git/Github, AWS, ECS, ECR, Route 53, Secrets Manager, CloudWatch Logs

### Tools & Others:

Vite, Jest, UI/UX, Jira, OAuth, OIDC, Auth0, JWT, Chart.js, Cursor AI, Claude, Agentic Programming, Slack/Teams

## Professional Experience

### Senior Full Stack Engineer

KollaCode | September 2023 - Present

- Led development as project and application lead for CTEBA (IBM global event management application), implementing CRON jobs with SendGrid for automated reminder emails featuring encrypted tracking links to monitor open rates and acknowledgment statuses for the Sales module
- Served as lead developer on IBM Partner Plus Awards application enabling judges to nominate and vote on partner achievements using Vite, Vue 3, Vuetify 3, and Nuxt.js, led front-end architecture development, implemented robust form validation, wrote Express.js APIs, and handled internationalization for 11 languages using vue-i18n
- Integrated AI-based government entity determination tool into legacy compliance application, calling AI APIs for automated results and expanding UI for human oversight and override capabilities, replacing fully manual process and saving hundreds of support hours
- Spearheaded migration of multiple Vue applications to latest versions (Vue 2→Vue 3, Vuetify 2→Vuetify 3, Vue CLI→Vite), improving application architecture, performance, and user experience
- Architected IBM Amenities application with dual workflow system (pro-mode and guided mode) for creating amenity bundle packages assigned to specific user types, solely responsible for currency and currency conversion implementation across all amenities, heavily involved in Pinia store management, REST API development, and Cloudant database optimization with CI/CD practices to IBM cloud
- Designed guided workflow managing majority and additional country attendees, creating amenities (Entertainment, Travel, Lodging, Gifts), setting amenity dates, and bundling packages for specific attendee types (Students, Speakers) with comprehensive form validation
- Implemented OAuth authentication in Vue.js applications enabling users to login with Google and other third-party providers for seamless account access

[Vue.js 3](#) [Vuetify 3](#) [Chart.js](#) [Node.js](#) [Express.js](#) [JavaScript \(ES6+\)](#) [TypeScript](#) [Pinia](#) [REST APIs](#) [Cloudant DB](#) [NoSQL](#) [CI/CD](#) [Nuxt.js](#)  
[SSR](#) [Cursor AI](#) [Claude](#) [Agentic Programming](#) [OAuth](#) [IBM Cloud](#) [AWS](#)

### Full Stack Engineer

KollaCode | July 2021 - September 2023

- Built and maintained CTEBA (IBM global event management application) with specialized modules (Event Manager, Legal, Specialist, Admin) for tracking invitees at worldwide sponsored events, solely responsible for implementing Sales module enabling reminder emails with multilingual template support
- Fully designed and implemented Vuetify Material Design customization to meet IBM Carbon Design specifications, replacing outdated Carbon-vue library while maintaining design consistency
- Led full-stack development of EDIT application v2 featuring Excel XLSX upload, automatic column mapping, data cleanup with bulk editing capabilities using Vuelidate and Zod validation, activities management, and marketing permissions workflow
- Implemented AG Grid for enhanced UI readability and bulk editing functionality, ensuring seamless data manipulation across large datasets
- Wrote complex Cloudant DB queries including views, indexes, and search operations to support Express.js APIs with efficient filtering and aggregation
- Ensured compliance with IBM's security and data privacy policies including PII data encryption, OpenID Connect (OIDC) authentication, and comprehensive audit logging while collaborating with global project managers, designers, and developers
- Optimized NoSQL database queries and indexing, reducing data retrieval time by 40% and improving performance for high-traffic applications

[Vue.js 2](#) [Vuetify 2](#) [Node.js](#) [Express.js](#) [JavaScript \(ES6+\)](#) [TypeScript](#) [Vuex](#) [REST APIs](#) [Cloudant DB](#) [NoSQL](#) [CI/CD](#) [AG Grid](#)  
[IBM Cloud](#)

# Software Engineer

80 Acres Farms | May 2018 - July 2021

- Built comprehensive MRP system for indoor vertical farming operations using Vue.js, Vuetify, Node.js, Elixir, GraphQL, and PostgreSQL to manage crop lifecycle from seeding to delivery
- Solely responsible for designing and implementing industry-standard packaging barcode system, ensuring compliance and streamlining product tracking workflows
- Developed Vue.js and Node.js applications for factory conveyor belt stations, integrating QR Code scanning technology for packaging workers to weigh, track, and prepare products for delivery
- Implemented comprehensive form validation using Vuelidate for critical crop processes including germination and seeding cycles, ensuring data integrity throughout production workflows
- Solely responsible for migrating Vuetify UI library from v1.5 to v2.3 across monolithic legacy application, refactoring components for compatibility and improved performance
- Designed and maintained user workflows enabling efficient crop data entry, wrote complex GraphQL queries integrated with Vuex store, and optimized PostgreSQL/Hasura tables for system scaling
- Created reusable UI components maintaining DRY architecture, mentored junior developers, and contributed to company growth from Series A to Series B funding

Vue.js 2   Vuetify 2   Node.js   Express.js   JavaScript   TypeScript   Vuex   REST APIs   Elixir   PostgreSQL   GraphQL

## Key Projects

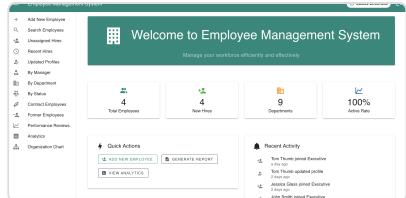


### Barcode Generator

2025 | [View Project](#) | [View Code](#)

A comprehensive barcode lifecycle management system that enables users to scan existing barcodes using their device camera or manually create new ones with real-time validation and preview. The application supports 8+ professional barcode formats including EAN-13, UPC, CODE128, and CODE39, with automatic check digit calculation and industry-standard compliance. Built as a full-stack TypeScript application with Vue.js frontend and Express.js backend, it features MongoDB cloud storage, professional print layouts, and a mobile-optimized responsive design with fullscreen scanning interface. Users can manage up to 20 barcodes with complete CRUD operations, including bulk printing capabilities and haptic feedback for enhanced mobile experience. The application is production-ready with AWS deployment using ECS for container orchestration on EC2 instances, Route 53 for DNS management, CloudFront for content delivery, Docker containerization, comprehensive error handling, Jest unit tests, and health monitoring endpoints.

Vue.js   Vuetify   Vuex   Vue CLI   Jest Unit Testing   JavaScript (ES6+)   TypeScript   Node.js  
Express.js   REST APIs   MongoDB   Cursor AI   Claude   Agentic Programming   Docker   CI/CD  
AWS   CloudFront   AWS S3   AWS EC2   AWS ECS   AWS Route 53



### Employee Management System

2025 | [View Project](#) | [View Code](#)

A full-stack web application for centralizing and streamlining HR operations that lets you create, update, search, and organize employee records; assign managers; visualize the org chart; perform bulk updates; and manage performance reviews end-to-end (scheduling, conducting, tracking, and monitoring overdue reviews), with an interactive analytics dashboard that surfaces key insights like department and status distributions, job levels, salaries, and hiring/performance trends via rich charts. The frontend is built with Vue 3, Vuetify, Pinia, and Chart.js, while the backend uses FastAPI with async MongoDB (Motor), featuring JWT authentication, environment-based configuration, and Vite-powered local development with SPA serving in production. The application is deployed on AWS using ECS Fargate for serverless container orchestration, ECR for Docker image registry, Application Load Balancer for HTTPS routing with host-based rules, Route 53 for DNS management, AWS Secrets Manager for secure credential storage (MongoDB and JWT secrets), and CloudWatch Logs for monitoring, with the database hosted on MongoDB Atlas for managed, scalable data persistence. The entire stack is containerized using multi-stage Docker builds and deployed via a GitHub Actions CI/CD pipeline, enabling automated builds and deployments on every push to main.

Vue.js   Vuetify   Pinia   Chart.js   XLSX   Vite   JavaScript (ES6+)   TypeScript   Python   FastAPI  
Motor   Pydantic   MongoDB   Docker   CI/CD   Cursor AI   Claude   Agentic Programming   JWT  
AWS   CloudFront   AWS S3   AWS EC2   AWS ECS   AWS ECR   AWS Route 53

## Certifications

### Full Stack Development Certificate

Georgia Institute of Technology | 2017

6-month immersive program covering HTML, CSS, JavaScript, jQuery, Bootstrap, React.js, Node.js, Express.js, MongoDB, MySQL, Command Line, and Git