

# BRIAN DJERF

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## Education

### Tufts University

*Bachelor of Science in Computer Science, School of Engineering*

Medford, MA

*Class of 2019*

## Technical Skills

**Frontend Technologies:** React, TypeScript, JavaScript, D3, Material-UI (MUI), React Hook Form, Zustand, Jest, RTL, Playwright

**Backend Technologies:** Java, Spring Boot, Spring Security, Spring Data JPA, Hibernate, PostgreSQL, Maven, Python, FastAPI

**Authentication & Security:** Auth0, JWT, OAuth, Role-based access control (RBAC), 2FA/TOTP

**Tools & Platforms:** Git, Docker, Node.js, Express.js, Webpack, Babel, ESLint, GitHub Actions, HubSpot API

**Other:** EDI integration, Invoice generation, PDF reporting, Email automation, Timezone handling, Internationalization (i18n)

## Experience

### EAI Technologies

Vienna, VA

*Software Engineer*

*April 2021 – Present*

- Developed and maintained full-stack web and mobile applications for multiple clients in the intermodal shipping and logistics industry, contributing over 2,000 commits across various projects
- Collaborated directly with clients to gather requirements, provide technical consultation, and deliver solutions tailored to their operational workflows

### Tideworks Technology – *Mobile Applications for Terminal Operations*

- Built three React mobile applications for intermodal terminal operations, supporting yard inventory management, crane and UTR work orders, and vessel loading/unloading operations
- Developed real-time yard inventory tracking system enabling workers to locate and update intermodal equipment status across Ground Inventory, Wheeled Inventory, and Heap Inventory views
- Implemented crane and UTR operator workflow for receiving and completing real-time work orders, coordinating container movements between vessel, yard, and rail locations
- Designed and implemented Redux state management patterns and sagas for complex data synchronization across offline-capable mobile clients

### ITI Intermodal × MRS-CMC × VEM Logistics – *Terminal Management Platform*

- Architected and developed full-stack terminal management system using React and TypeScript on frontend and Spring Boot, Java, PostgreSQL on backend, serving both internal terminal administrators and external customers
- Implemented comprehensive gate operations module for tracking equipment entry/exit with automated lift event generation, stacked equipment handling, and draft transaction workflows
- Built complex storage invoicing system with configurable billing rules, customer contracts, zoned date handling, and automated charge calculations for chassis lifts, digs, and container storage
- Developed role-based access control (RBAC) system with granular permissions supporting multiple user types across terminal operations
- Created dynamic reporting system with timezone-aware transaction exports, inventory reports, and interchange documentation
- Integrated EDI (Electronic Data Interchange) for automated booking and redelivery validation against trucking company rules

### TOTE Group – Carlile Transportation – *MyConnect Shipment Management*

- Contributed to customer-facing shipment management platform connecting Tacoma and Alaskan ports, focusing on pickup appointment scheduling and notification systems
- Developed appointment management features including creation, updates, cancellations with real-time status synchronization and success notifications
- Implemented image handling system for shipment documentation with thumbnail generation, sequential fetching, and modal viewing using React Context
- Built paginated parcel search with case-insensitive filtering, receipt date tracking, and payment reminder automation
- Integrated Spring Boot backend with AWS services for scalable shipment data processing and storage

### Kasm Technologies – *License Manager Platform*

- Built full-stack license management system from scratch using React, TypeScript, Material-UI, and Node.js backend with HubSpot integration
- Implemented Auth0 authentication with 2FA/TOTP support and comprehensive Playwright end-to-end test suite with automated cleanup
- Developed customer lifecycle management including creation, updates, deletion with bidirectional Kasm license server synchronization and error handling
- Created sales partner portal for managing end-user licenses with real-time status updates and company relationship tracking

## Summary

Full-stack software engineer with 5 years of experience building web and mobile applications for the logistics and shipping industry. Specialized in React, TypeScript, and Spring Boot with proven ability to deliver complex, production-ready systems for terminal operations, inventory management, and customer portals. Strong track record of direct client collaboration, translating operational requirements into scalable technical solutions.