

BENJAMIN FORD

FULL STACK SOFTWARE ENGINEER | VOLUNTEER FIREFIGHTER/EMT

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PROFESSIONAL SUMMARY

Full-stack software engineer with 10+ years of experience building and supporting production applications across mobile, web, and backend systems. Experienced in React, TypeScript, C#/.NET, REST APIs, CI/CD, and offline-capable applications used in demanding field environments. Volunteer Firefighter/EMT with a Wildland Firefighter Red Card and hands-on experience building GIS-based tools for fire district training and preplanning. Focused on reliable, maintainable software that helps users make informed decisions in time-sensitive environments.

TECHNICAL SKILLS

Frontend & mobile: React, TypeScript, JavaScript, React Native, Expo/EAS, Angular, Figma

Backend & data: C#/.NET, Node.js, REST APIs, JSON, PostgreSQL, MongoDB, authentication, and authorization

Delivery & quality: GitHub Actions, Azure DevOps, CI/CD, Docker, automated testing, logging, Sentry, code review

Geospatial projects: Python, QGIS/PyQGIS, GeoPandas, ArcGIS REST, GeoJSON, GeoPackage

SOFTWARE ENGINEERING EXPERIENCE

Full Stack Developer | Visionbox | Employee: 2018 – May 2025 | **Consultant:** Sep 2025 – Present

- Developed ComPASS, a React Native/TypeScript application used by anti-doping personnel at the Olympics and Tour de France, with online and offline field workflows.
- Built C#/.NET and React administrative applications for test planning, sporting events, vendors, contracts, athletes, and test results.
- Deliver mobile and web features, automated tests, and releases; manage Azure and GitHub Actions CI/CD pipelines across ComPASS and related administrative systems.
- Supported field users on-site in 24/7 event environments, troubleshooting production issues and maintaining legacy applications.
- Created onboarding documentation and mentored developers through pair programming and shadowing.

Owner/Consultant | Avalanche Technology LLC | Sep 2025 – Present

- Independently built Training Suite, a production TypeScript training platform for Larkspur Fire Protection District, working with department members on requirements and workflows.
- Manage requirements, priorities, technical tradeoffs, releases, and support for Training Suite and department study tools; provide Visionbox consulting through Avalanche.

Mid-Level Software Engineer | KBR | May 2025 – Sep 2025

- Worked with Air Force & Space Force product owners to define backlog priorities, estimate development work, and plan sprints for JSTATS and ATOM projects.

- Developed electronic surveillance software integrating a frequency analyzer with an operator-facing interface, enabling users to configure and load system settings in the field.
- Implemented application logging, automated test suites, and technical documentation for JSTATS and ATOM to support diagnostics, verification, and maintainability.
- Built Azure DevOps CI/CD pipelines for software delivery and Figma wireframes using the Astro UX Design System to translate interface requirements into implementation plans.

SELECTED TECHNICAL PROJECTS

Training Suite LMS | Fire Department Training Platform

TypeScript | Role-based workflows | End-to-end testing | Docker

- Built a production learning management system for Larkspur Fire Protection District and maintained its training workflows with department users.
- Implemented courses, quizzes, assignments, and role-based learning and administration to support department training.
- Used end-to-end tests and Docker-backed development to support releases, ongoing maintenance, and reliable delivery.

Fire District GIS Mapping & Preplanning | Larkspur

Python | QGIS/PyQGIS | GeoPandas | ArcGIS REST | GeoJSON | GeoPackage

- Developed a Python/QGIS geospatial workflow using Douglas County, Colorado GIS data to generate district maps and gridded run books for firefighter training and preplanning.
- Implemented source tracking, freshness checks, and data validation to flag data gaps and support repeatable map updates.
- Implemented offline caching and integrated a district map into Station Study, connecting the map-generation workflow to a department study resource.

FF1 CO JPR | Published Firefighter Study App

- Published a React Native/Expo app for iOS and Android covering Firefighter I and Hazmat JPR study.
- Built search and filtering, task-PDF access, local preference storage, and certification switching for academy and department study.

FIRE SERVICE

Volunteer Firefighter/EMT | Feb 2026 – Present

Larkspur Fire Protection District | Larkspur, CO

- Support fire/EMS readiness, scene safety, crew accountability, and station operations as part of a response crew.
- Maintain apparatus and equipment readiness through routine checks, inventory, cleaning, and station duties to support emergency response.
- Work as part of a crew during emergency incidents and training, maintaining clear communication, situational awareness, accountability, and adherence to established safety procedures.
- Completed Firefighter I academy/JPR training and holds a Wildland Firefighter Red Card.

CERTIFICATIONS

Wildland Firefighter Red Card

S-110 | S-130 | S-190 | L-180 | I-100 | Arduous Work Capacity Test

Firefighter

Firefighter I | Hazmat Operations | Hazmat Awareness | ICS-100 | ICS-200 | ICS-700 | ICS-800