

Jake Ripley

Software Systems Developer

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PROFESSIONAL SUMMARY

Software systems developer focused on practical internal tools, clean operational interfaces, and public-safe software demos. Builds custom web systems around CRM workflows, compliance tracking, telemetry visibility, project planning, and website experiences where the interface has to make the next step obvious.

CORE STRENGTHS

WORKFLOW SYSTEMS

Records, tasks, files, notes, history, handoffs, dashboards, and follow-up paths shaped into usable tools.

PRIVATE WORK DISCIPLINE

Compliance, driver records, private uploads, audit history, and public-safe presentation handled with care.

INTERFACE JUDGMENT

Cleaner hierarchy, fast scanning, and task-oriented screens for operators, clients, and internal teams.

INTEGRATION MINDSET

Microsoft handoffs, REST/AJAX flows, search, exports, notification patterns, and external system context.

SELECTED SYSTEMS WORK

Operations CRM

CRM, proposal workflow, search, exports

- Built a custom CRM and workflow platform for companies, contacts, proposals, projects, tasks, files, notes, activity history, dashboard widgets, and global search.
- Designed proposal handoff paths that keep pricing, project context, tasks, contacts, notes, files, and follow-through visible in one operational workspace.
- Added operational quality through exports, duplicate detection, integrity checks, dashboard customization, Outlook context, and Teams handoff flows.

DOT Compliance Workspace

driver files, renewals, private portal

- Built a compliance workspace for driver files, licenses, filings, reminders, checklist state, private uploads, driver-facing completion, and audit history.
- Modeled renewal and filing work around due dates, expiration awareness, responsibility, approval state, and document completion instead of static record storage.
- Supported safer private document handling, reminder diagnostics, filing coverage review, and operational history for compliance follow-up.

Telemetry Dashboard

remote units, GPS, alerts, satellite loops

- Built operator-facing telemetry views for remote units, GPS location, unit status, alerts, history, and guarded request flows.
- Connected satellite-return refresh loops into dashboard data so operators could review map position, unit information, and status without chasing raw messages.
- Kept public presentation high-level because the real system contains sensitive operational details.

ADDITIONAL SYSTEMS AND PUBLIC WEBSITE WORK

Project Manager

planning workspace, teams, views

- Built a PM-focused workspace with project routes, task views, team membership, files, discussion, activity, settings, and planning modes.
- Supported list, board, and Gantt-style workflows so teams can scan ownership, schedule, risk, and next action from different angles.
- Treated the CRM-to-PM shift as a domain redesign with PM-specific structure rather than a cosmetic screen change.

Public Website Work

brand fit, clarity, contact paths

- Built public-facing sites where the goal is clear communication, brand fit, speed, trust, and a straightforward path to action.
- Examples include Live Wire Fireworks and Michael's Painting & Drywall.

EDUCATION

B.S. Computer Science Montana State University Bozeman, completed 2024.

M.S. Cybersecurity In progress. Security direction layered onto a computer science and systems foundation.

Early technical exposure JTAG-era Xbox hardware research in 2009 and first web coding class in 2017.

ACADEMIC TECHNICAL WORK

COMPILER CONSTRUCTION

CatScript compiler work in Java, including tokenizer and recursive-descent parser pieces. Public value: parsing discipline, language structure, and machine-oriented reasoning.

INTERFACE AND HCI

Human-centered interface coursework around hierarchy, interaction paths, evaluation habits, and front-end decision-making.

ROBOTICS AND EMBEDDED BEHAVIOR

Raspberry Pi and servo-based robotics work with movement, vision, and AI-connected speech capability. Public value: hardware/software integration and autonomous behavior constraints.

SYSTEMS, NETWORKS, AND SECURITY

Coursework across computer systems, databases, software engineering, networks, computer security, systems administration, algorithms, and computability.

TECHNICAL RANGE

APPLICATION DEVELOPMENT

PHP, JavaScript, HTML, CSS, Astro, WordPress, custom themes, custom plugins.

INTEGRATIONS

Microsoft Outlook and Teams handoffs, REST/AJAX endpoints, notification and portal patterns.

PRODUCT SKILLS

Workflow mapping, interface hierarchy, private-file workflows, public-safe demos, and maintainable UI systems.

DATA AND WORKFLOW

SQL, custom tables, imports, exports, search indexing, dashboard widgets, audit and history trails.

SYSTEMS FOUNDATION

Java, compiler construction, computer systems, networks, security, and systems administration.

PROFESSIONAL FOCUS

Best fit: custom internal tools, operational dashboards, compliance workflows, CRM and proposal systems, telemetry or field-status interfaces, public-safe demos, and public websites that need clear structure instead of generic template work.