Ben Radley

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PROFESSIONAL SUMMARY

Software Engineering graduate with hands-on experience building and deploying web applications, working with real-time systems, and developing automated testing solutions. Strong foundation in Java, Python, and SQL with a focus on backend and systems development where reliability and data integrity matter. Recently built and hosted projects on AWS and actively exploring AI-assisted development with Claude to improve workflow and delivery.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C, SQL, HTML/CSS
Testing & QA: JUnit, Selenium, Cucumber, TDD
CI/CD & Version Control: GitHub Actions, Git, GitHub workflows
Tools & Platforms: Git, GitHub Actions, AWS, Linux, Spring Boot
Concepts: REST APIs, CI/CD, Agile development, data modeling

PROJECTS

Personal Portfolio Website (AWS Hosted) – brsoftware.ca *2026*

- Built and deployed web applications hosted on AWS Cloud (JavaScript, HTML, CSS)
- Handled multiple data formats and standardized input for consistent processing and visualization. Used Claude AI-assisted development to prototype and iterate

Quadcopter Flight Analyzer (AWS Hosted) – (Demo at brsoftware.ca) 2026

- Tool for parsing flight data from five different drone manufacturers, display flight data and suggest flight improvements. (HTML, CSS, JavaScript, Java). Used Claude AI-assisted development to prototype and iterate
- Standardized and processed multiple data formats to enable consistent analysis and visualization

Capstone Project – Distributed Sensor Network Simulation brsoftware.ca *2024–2025*

- Designed/implemented a fault-tolerant simulation for real-time sensor data ingestion w/monitoring in Python.
- Built scheduling logic and telemetry/logging views to support validation of timing- and event-driven systems.
- Worked in an Agile team using Git-based collaboration, iterative delivery, and shared documentation.

Pre-emptive Scheduler (Real-Time Systems) *2024–2025*

- Implemented a pre-emptive scheduler in C on Linux and validated timing constraints for prioritized tasks.
- Worked from detailed technical requirements to test system behavior against hard real-time deadlines and expected outputs.

Software Quality Assurance Simulation *2024-2025*

- Designed/executed automated tests using Junit, with test-driven development, refactoring, and defect isolation.
- Automated testing for web applications using Selenium, Maven, IntelliJ and GitHub workflows

WORK EXPERIENCE

Radley Improvements (2025-Current) **–** General Construction laborer, including carpentry, plumbing, insulation
Castle Kid (May 2024-Aug 2024) **–** Managed delivery, setup, and operation of equipment in customer environments
Primitive Designs (May 2023-Aug 2023) –Handled inventory, unloading, customer support in a fast-paced setting
Graphic Packaging (May 2022 – July 2022) – Operations of packing machines following processes focused on quality
Home Hardware (Mar 2021 – Aug 2021) – Loaded materials, assisted customers, and operated equipment (forklift)

EDUCATION

Bachelor of Engineering, Software Engineering | *Sept 2021 – May 2025*
Carleton University, Ottawa, ON
Relevant Classes: Intro to Digital Systems, Computer Organization & Architecture, Object-Oriented Software, Operating Systems, Real-Time Systems, Real-Time Concurrent Systems, Software Development, Software Quality Assurance, Web Development, Database Management Systems, Systems & Simulations, Performance Engineering, Network and Software Security.

ADDITIONAL STRENGTHS

Detail-oriented, quick learner, strong teamwork and leadership experience (Air Cadets, pilot training)