# David Caldwell

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## Professional Summary

**Software Engineer & Technical Operations Specialist**

Computer Science graduate with 10+ years of technical operations experience, blending deep hardware troubleshooting with modern software engineering. Expert in remote diagnostics, field deployment, and root cause analysis for mission-critical systems.

Possesses a unique ability to bridge the gap between physical hardware realities and software logic. Seeking engineering roles that leverage this hybrid background in full-stack development (Python, AWS, React) to solve complex infrastructure, robotics, or operational challenges.

## Technical Skills

**Languages:** JavaScript, Kotlin, Python, Java, C++, Bash/Shell.
**Cloud & Infrastructure:** AWS (EC2, S3, NoSQL), CI/CD (GitHub Actions), CloudFormation (IaC).
**Web Frameworks:** React, Node.js, HTML, CSS, RESTful APIs.
**Operations:** Remote Diagnostics, Field Engineering, Root Cause Analysis, Technical Documentation, System Integration.
**Methodologies:** Agile, Object-Oriented Design, Data Structures, Unit Testing.

## Education

**Bachelor of Science in Computer Science**
 Bellevue College, Bellevue, WA | June 2024
Graduated Magna Cum Laude

## Software Projects

**ReturnPal: Full-Stack Android App | Java/Kotlin, AWS, SQL |** [Link to Repository](Link to Repository)

- Developed a native **Kotlin** Android application as part of a collaborative, full-stack team.
- Architected and deployed scalable backend infrastructure on **AWS (EC2, S3, NoSQL)** using **CloudFormation (IaC)**, ensuring repeatable, automated environments for testing and production.

- Participated in the full software lifecycle in an Agile environment, including requirements analysis, implementation, and verification via a collaborative **Git** workflow and **CI/CD pipeline**.

**Full-Stack Logistics Platform (Númenor Freight Division) | [Link to Site](#) | [GitHub Link](#)**

- Architected a serverless logistics platform using React and Firebase, integrating a **Google Pub/Sub message queue** to power a Discord bot with **automatic retries and rate-limiting logic** for reliable notifications.
- Authored a comprehensive test suite using Jest and React Testing Library, serving as an example of rigorous frontend testing standards.
- Implemented a robust **CI/CD pipeline via GitHub Actions** to automate testing and deployment, demonstrating modern DevOps workflows.

**Android Development Workshop & Curriculum (Capstone)** | [Link to Repository](#)
- Designed and co-authored a comprehensive, step-by-step technical workshop teaching modern Android development using **Kotlin** and **Jetpack Compose**.
- Collaborated on creating "Zero-to-Hero" documentation, including environment setup guides, project structure analysis, and progressive code challenges.

Built a complete demo application as a team to serve as the golden standard for workshop participants, demonstrating best practices in mobile architecture.

# Professional Experience

**Drives Repair Technician** | Radwell International (Acquired Practec LLC) | 2019 - 2024

- **Documentation & Knowledge Transfer:** Standardized and scaled the diagnostic playbooks I architected at Practec, which were adopted as the corporate Standard Operating Procedure (SOP) for the wider Radwell team following the acquisition.
- **Root Cause Analysis:** Collaborated directly with cross-functional engineering teams to diagnose and resolve complex, safety-critical system failures.

**Technician** / **Senior Technician** | Practec LLC | 2010 - 2019

- **Process Architecture:** Developed formal testing and diagnostic procedures that reduced diagnostic turnaround time by 75%. These procedures were later integrated into Radwell's enterprise knowledge base.
- **Embedded Test:** Served as the primary escalation point for multisystem support, providing critical remote diagnosis and troubleshooting over the phone.