Dominique Randolph

Senior Software Engineer — Mobile, Backend, Developer Infrastructure, Applied AI

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Summary

Software engineer with 8+ years of experience building developer infrastructure, mobile applications, backend APIs, and applied AI systems, including nearly 7 years at Google. Led a multi-tenant test-failure clustering platform from system design through rollout to 6 partner teams, reducing build-cop toil by ~30% and earning Google's highest performance rating. Most recently founded and solely engineered a production health platform: 250K+ lines of code across iOS, Android, 34 serverless backend functions, wearable integrations, and an LLM assistant with tool calling and safety guardrails.

Technical Skills

Languages: Kotlin, Python, C++, Java, JavaScript, Dart, HTML/CSS

Mobile: iOS, Android, React Native, Expo (EAS), Apple HealthKit, Android Health Connect, Bluetooth Low Energy (BLE), XCUITest

Backend & Cloud: REST API Design, System Design, Serverless Cloud Functions, Multi-Tenant Systems, AWS, Django, MongoDB, HIPAA

Infrastructure & Reliability: CI/CD, Test Automation, Integration Testing, End-to-End Testing, Developer Tooling, Flaky Test Reduction, Failure Analysis, Git

Applied AI: LLM Integration (Claude API), Tool Calling / Function Calling, AI Guardrails, AI-Assisted Development and Testing (Claude Code)

Professional Experience

Founder & Software Engineer | GLP Care Inc. | Bellevue, WA | 2026

- Founded and solely engineered a production health platform spanning iOS, Android, backend services, wearable integrations, analytics, and applied AI: 250K+ lines of code, ~70 screens, and 85 features across 13 product areas.
- Architected the backend on 34 serverless Cloud Functions and owned the full lifecycle (design, implementation, testing, deployment, production support), reaching the App Store in ~1 month and shipping 11 production releases.
- Built Cara, an in-app AI assistant on the Claude API with custom tool calling for workout creation, symptom logging, and protocol-data retrieval.
- Designed application-level AI guardrails that block medical-advice responses and medication dose-change recommendations in a regulated health context.
- Led HIPAA-related technical and operational setup, plus hardware sourcing, wearable evaluation, and vendor coordination.

Software Engineer, Google Meet | Google | Kirkland, WA | Oct 2024 – Mar 2026

- Designed and built a reusable end-to-end UI-testing layer on XCUITest for Google Meet iOS, giving teams shared infrastructure for automated user-flow tests.
- Shipped 6 core framework changes that enabled engineering teams to adopt the framework, migrate existing coverage, and author new tests.

- Built reusable interaction and validation workflows for the Meet UI, replacing bespoke test code and manual release validation.
- Maintained dozens of long-running CI tests guarding critical Meet functionality across releases.
- Led the migration from legacy testing workflows to AI-assisted testing systems, partnering with engineering and QA to prioritize coverage gaps.

Software Engineer, Legal Removals | Google | Austin, TX | Jan 2022 – Mar 2024

- Designed core forms infrastructure (Kotlin backend, Dart frontend, reusable data models) powering ~20 new EU Digital Services Act (DSA) legal-removal workflows.
- Designed a forms API that standardized how form configuration and user submissions move between backend and frontend systems.
- Extended internal content-moderation tooling to process the new DSA workflows, delivering against fixed regulatory deadlines.

Software Engineer, Developer Infrastructure | Google | Madison, WI | Nov 2018 – Jan 2022

- Designed and launched a multi-tenant integration-test failure clustering platform adopted by 6 partner teams, reducing build-cop toil by ~30% (mean time to resolution across tracked bugs).
- Led the project end to end, from system design and implementation through partner outreach, onboarding, and production rollout; earned Google's highest performance rating ("Superb").
- Built automated failure-context collection and edit-distance similarity scoring to cluster related failures across hundreds of long-running integration tests.
- Supported 30 CI workflows across multiple hardware configurations for low-level networking teams, and designed resource-allocation strategies to reduce test flakiness.

Business Application Developer | Extreme Engineering Solutions | Madison, WI | May 2017 – Mar 2018

- Built differential tooling to compare Bills of Materials across complex hardware configurations.
- Developed API integrations and scheduled jobs that automated recurring engineering and business workflows.

Education

Bachelor's Degree, Computer Science | Lakeland University | 2017