ABHI K. TIWARI

Royal Oak, MI | (248) 579-7254 | abhi.kay.tiwari@gmail.com
abhitiwari-dev.vercel.app | linkedin.com/in/abhi-kay-tiwari | github.com/KayTiwari

PROFESSIONAL EXPERIENCE

Senior Software Engineer, Bayer — Remote *Jul 2022 – Feb 2026*

- Built Node.js and .NET Core REST API services to centralize report metadata, workflow status, and reference data retrieval, eliminating duplicated client-side API logic by 25% across 10+ enterprise React applications.
- Optimized AWS DynamoDB and SQL Server access patterns through query tuning, secondary indexes, and server-side filtering, reducing average query latency by 30% (from ~800ms to ~560ms) on high-volume reporting workflows.
- Refactored React/Redux state management and API consumption patterns across 4 SaaS modules, cutting user task completion time by 20% and reducing duplicated frontend code by ~3,000 LOC.
- Automated Azure DevOps CI/CD pipelines across dev, test, and production environments using YAML and Docker, reducing release cycle time by 40% (from 5 days to 3 days) and eliminating manual deploy steps.
- Architected AWS-native services using ECS, Lambda, S3, and DynamoDB to modernize legacy reporting workloads, improving scalability to handle 3x request volume with no degradation.
- Raised code quality with xUnit tests, peer reviews, and SonarQube gates, reducing post-release production defects by 25% over 18 months and lowering long-term technical debt.

Software Engineer I, Priority Dispatch — Salt Lake City, UT *Sep 2021 – Feb 2022*

- Built enterprise training software for emergency dispatch workflows in C#/.NET, JavaScript, and SQL Server, supporting scenario-based learning used by 50+ mission-critical 911 call centers.
- Delivered full-stack enhancements across training modules and backend validation logic, reducing manual QA review effort by 20% and improving sprint release readiness.
- Debugged production issues and strengthened input validation on high-priority training workflows, contributing to a 25% reduction in repeat defects across 2-week Agile cycles.

Software Developer, PCIS Gold — Provo, UT *Jul 2019 – Sep 2021*

- Developed and maintained healthcare software in C#/.NET Core, ASP.NET, SQL Server, and WPF/XAML, supporting clinical workflows and patient data management for 200+ practitioner end users.
- Built REST APIs to support interoperability across internal healthcare platforms, improving data access consistency and removing 4+ manual coordination steps between application modules.
- Optimized SQL Server performance through query tuning, schema refinement, and indexing strategy, achieving a 25% improvement in data retrieval speed on high-use clinical workflows.
- Implemented automated unit testing with xUnit and NUnit, reducing regression issues by 30% and improving release reliability across recurring sprint cycles.

PROJECTS

- **AIMxd (Founder, solo build, 2026) —** Building a two-sided marketplace for vetted aerial farmland imagery (NDVI, multispectral, thermal, LiDAR) with Next.js, Postgres, Prisma, Stripe Connect, and Cloudflare R2; license PDFs auto-generate per order and files unlock on payment.
- **Bevri (Teli) — Contract Engineer, 2026 —** Shipped Google Calendar, Microsoft Graph, OAuth, and Stripe billing integrations for an early-stage AI scheduling product in TypeScript and Postgres.
- **Simply Ambient (Solo, 2026) —** Cross-platform iOS and Android binaural and breath-work app built in React Native, TypeScript, and Expo; targeting Google Play launch.
- **Cloud-Native Modernization —** Migrated legacy services to AWS using ECS, S3, Lambda, DynamoDB, Docker, and Azure DevOps pipelines, improving scalability and deployment repeatability across 6+ services.

SKILLS

Languages: C#, Python, JavaScript (ES6+), TypeScript, SQL, HTML5, CSS3
Frontend & Backend: React.js, Next.js, Redux, React Native, Expo, TailwindCSS, Node.js, .NET Core, ASP.NET Web API, REST APIs, microservices
Cloud, DevOps & Databases: AWS (S3, ECS, Lambda, DynamoDB), Cloudflare R2, Docker, Azure DevOps, CI/CD, Git, SQL Server, PostgreSQL, Prisma, MongoDB, Firebase
Testing & Practices: xUnit, NUnit, TDD, SonarQube, Agile/Scrum, code reviews, query tuning, data modeling, production support

EDUCATION

Oakland University — Rochester, MI | Bachelor of Arts, Biology *2013 – 2018*