

RICHARD BIHOMORA

Software Engineer · Full-Stack, Mobile & Applied AI

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SUMMARY

Senior full-stack software engineer with 7+ years building production web and mobile applications across React, React Native, TypeScript, Node.js, and Java/Spring. Experienced in enterprise application architecture, authentication, cloud infrastructure, APIs, and production operations. Founder and technical lead on independent software products, with current research focused on multi-agent AI systems, LLM evaluation, and machine learning.

TECHNICAL SKILLS

Languages	TypeScript, JavaScript, Python, Java, Swift, SQL, HTML / CSS / SASS
Front-end / Mobile	React, Next.js, React Native / Expo, React Query, Material UI (DataGrid), Angular
Back-end / Data	Node.js (Fastify, Restify, Express), REST, GraphQL, Spring Boot, SQL Server, MySQL, PostgreSQL, Cosmos DB, MongoDB, Knex, Supabase
Cloud / DevOps	Azure (Azure AD, queues), AWS, Google Cloud, Vercel, Firebase, Auth0, JWT and role-based access control, nginx, systemd, Jest, Git / GitHub / Bitbucket, Jira, Agile
AI / ML	PyTorch, transformers, LLM evaluation design, Claude API, Model Context Protocol, multi-agent systems

PROFESSIONAL EXPERIENCE

Senior Software Engineer · CliftonLarsonAllen (CLA) Oct 2022 - Present

- Design and develop enterprise applications using React, TypeScript, Node.js, SQL Server, Cosmos DB, and Azure, supporting complex accounting and engagement workflows for a top-ten U.S. accounting firm.
- Build reusable front-end components, forms, APIs, and data workflows while collaborating with product, QA, and back-end engineering teams; lead front-end implementation decisions across multi-developer projects.
- Implement and troubleshoot Azure AD authentication, JWT authorization, and role-based access controls across enterprise application workflows.
- Diagnosed and resolved an asynchronous queue-processing issue that had stalled automated CSV exports, restoring a critical workflow.
- Modernize legacy services and application architecture, including Node.js-to-TypeScript and Restify-to-Fastify migrations.
- Develop automated tests with Jest and mocked database dependencies and investigate production issues across UI, API, authentication, and database layers.

Lead Mobile Engineer · GloriaTech LLC (Gloria app) · Contract Sep 2025 - Present

- Lead engineer for a React Native / Expo app serving family, staff, and administrator roles in residential-care communities: Auth0 authentication with single-flight token refresh, role guards, approval workflows, Firebase push, and media pipelines. Weekly over-the-air releases, each reviewed before it ships.

Founder & Lead Engineer · HausHive, LLC · Independent studio, part-time 2021 - Present

- Took over a legacy Spring Boot / MySQL portal for a non-profit with no source code: rebuilt a buildable codebase from the shipped artifact, closed critical authentication and authorization gaps, hardened nginx and systemd, added an append-only admin audit log, and recovered a 29-hour outage on Google Cloud.
- Designed and launched a paid education product on React, Supabase, Vercel serverless, and Stripe: course of nine modules, quizzes, feasibility worksheets, and admin console.

SELECTED RESEARCH & ENGINEERING PROJECTS

Legion (audio representation learning). Trained a 2M-parameter transformer from scratch on ten hours of speech in PyTorch, showing depth-emergent, language-general phonetic structure against random-init controls, with cross-species evaluation on birdsong. Manuscript in preparation for TMLR.

Multi-agent AI operations platform. Built and operate a fleet of eight Claude-based agents behind a gateway with cron scheduling, OAuth token synchronization, and Telegram / Discord interfaces, unified by a shared orchestration layer for jobs, secrets, and notifications.

magneto-browse (AI browser-automation agent). Node.js Model Context Protocol server with a Chrome extension and a native macOS Swift client behind one protocol; accessibility-tree snapshots, origin-gated commands, and a local credential vault so passwords never pass through the model.

EARLIER EXPERIENCE

Software Engineer · TELUS Apr 2019 - Oct 2022

- Built Angular front-end applications; designed, deployed, and supported RESTful API services; owned website maintenance and enhancements.

Technical Expert · Apple Inc. Jun 2017 - Apr 2019

- Diagnosed and resolved hardware and software issues on the spot for multiple customers at once.

EDUCATION

B.S. · University of Missouri-St. Louis