

Tanny Gill

Senior Fullstack Software Engineer

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SUMMARY

Software engineer with 9+ years building full-stack applications, AI bots/agents, microservices, and integrations. Experienced across the full lifecycle, from scoping and system design through release, observability, and production support.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C#, Ruby, SQL

Frameworks & Runtimes: React, Angular, Node.js, Next.js, Vue.js, Express.js, Ruby on Rails

Databases & Caching: PostgreSQL, MySQL, DynamoDB, Redis, MongoDB

AI & Agent Systems: Agent loops and orchestration, context engineering, skills and tool policies, MCP, evaluations, Langfuse tracing

Architecture & Practices: Microservices, event-driven design, API authorization, rate limiting, feature flags, trunk-based development, CI/CD, observability and tracing

Cloud & Operations: AWS Lambda, S3, EC2, EventBridge, CloudWatch, AWS CDK, CDKTF (Terraform), Serverless Framework; GCP Cloud Run, Cloud Tasks, Cloud SQL, Secret Manager; Docker; Dynatrace, PagerDuty

EXPERIENCE

Compass Digital | Senior Software Engineer

Oct 2024–Present

- Maintained and enhanced core CentricOS TypeScript/Node.js microservices on PostgreSQL and AWS, shipping through trunk-based weekly releases with Dynatrace monitoring and PagerDuty on-call.
- Drove the menu-domain migration onto versioned v4 catalog and menu APIs, and built event-driven publishing and stock workflows on EventBridge, including draft/live menus and Kitchen Display System (KDS) item 86ing.
- Authored RFCs and built the systems end to end, including the menu audit-log system (PostgreSQL change logging, actor filtering, process-ID correlation across asynchronous publishing) and super-admin role-based authorization rolled out behind feature flags.
- Built Cursor-based engineering agents for recurring maintenance, including a feature-flag cleanup agent that pulled stale flags from Harness, removed dead code paths, and opened pull requests for human review; also prototyped an AI image-generation feature for menu items that was later productionized.

Meroxa | Sr. Solutions Architect

Jan 2023–Jul 2024

- Developed reusable processors for the Meroxa platform that automated data cleansing, transformation, and integration across connected systems, eliminating manual ETL steps in customer pipelines.
- Architected real-time data and streaming solutions for commercial and federal clients across PostgreSQL, MongoDB, Snowflake, Databricks, S3, BigQuery, and Redpanda, translating ambiguous requirements into system designs and working proofs of concept.
- Supported successful federal SBIR Phase II proposals for NASA, U.S. Space Force, and the U.S. Navy; designed Cloud Kiosk with a federal counterpart and built its MVP in Python, using Conduit REST APIs to create and manage S3-backed data pipelines with audited configuration changes.

Replicant

San Francisco Bay Area/Remote

Senior Software Engineer

Mar 2020–Dec 2022

Founding Engineer

Jul 2018–Feb 2020

- Joined Replicant, a voice AI platform for contact center automation, as a founding engineer when the company had five employees; helped it scale past 100 employees through Series B and mentored junior engineers.
- Designed and launched Replicant's first production voice agent and 10 more for multiple Fortune 500 contact centers, generating \$8.6M+ in ARR.
- Extended the Replicant SDK with reusable finite-state-machine components and integrations spanning Shopify, Zendesk, Salesforce, and Google Maps, accelerating delivery across similar customer use cases.
- Owned technical delivery for early customers from proof of concept through production launch, translating requirements into statements of work, estimates, and engineering plans.
- Built the initial beta of Replicant Cassette, a tool for voice artists to record and manage the audio clips used by production voice bots, using Vue.js and a Node.js/Express backend with audio stored in GCP buckets.

TrainingRelief Inc. | Software Developer

Oct 2016–Jun 2018

- Shipped full-stack features using Angular, Spring Boot, and REST APIs, and led an Angular Material redesign for responsive desktop and mobile use.
- Integrated Redis via AWS ElastiCache to reduce MySQL load, added CloudWatch API metrics, and supported EC2/Elastic Load Balancer deployments and Jenkins releases.

SELECTED PROJECTS

Ask Quickly | AI Operations Product

- Designed and built the agent runtime, including synchronous and streaming multi-step loops, context composition, skill delegation, tool discovery and policy enforcement, moderation, and auditable execution; added evaluations and Langfuse tracing to catch regressions and analyze behavior.
- Built and deployed the full-stack TypeScript, Next.js, Prisma/PostgreSQL, and GCP application and its integration framework spanning OAuth apps, MCP servers, custom REST connectors, and browser automation.

Listing Desk | Real Estate Paperwork Automation

- Built a Next.js and TypeScript application that turns listing links, uploaded documents, and a guided conversation into review-ready Ontario real-estate forms; separated LLM-driven extraction and orchestration (OpenAI API) from deterministic PDF generation, validation, and review-before-send gates.

TransPlus Desk | Windows Desktop Automation

- Built an agent-driven workflow for a trucking company that converts rate-confirmation PDFs into validated order data and enters orders into TransPlus FleetManager through a deterministic C#/.NET desktop runner with dry runs, confirmation gates, and fail-closed UI automation.

EDUCATION

McMaster University | Honours Bachelor of Commerce, Finance; Minors in Computer Science and Economics | 2013–2017

Lighthouse Labs | Full-Stack Web Development | 2016