Abhiram Shaji

Software Engineer · AI Systems · Forward-Deployed Engineering
Montreal, QC · Open to relocation across Canada
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SELECTED ENGINEERING ACHIEVEMENTS

- Merged upstream contributions to Google ADK, AWS CDK CLI, AWS Bedrock AgentCore, Genkit, Tailscale and PR-Agent. Fixed workflow-history, deployment and agent-memory bugs; added regression coverage to the Google and AWS fixes.
- Lead author of Botpress's Shopify agent kit and creator of Agentic Reporter. Build customer-facing AI systems and reusable delivery tools; also created Architect, an open-source desktop application for reviewing coding-agent changes.

EXPERIENCE

Software Engineer Sep 2025 - Present
Botpress · Montreal, QC · Software engineering and enterprise AI delivery

- Build and maintain TypeScript agents using the Botpress ADK, translating customer requirements into architecture, API integrations, integration tests and production handoff.
- Lead development of a reusable Shopify agent kit for product search, orders, returns and human handoff. Implemented three autonomy levels, human approval for refunds by default and 15-minute confirmation expiry.
- Automated store onboarding from a URL, including store-profile generation, checks against source prices and policies, typechecking, tests, deployment and draft pull-request creation.
- Designed, built and maintain Agentic Reporter for separate bot and company-policy CSAT scores, outcomes and semantic topics. Compute report figures in code; reject and retry drafts that cite unsupported numbers.
- Versioned grading prompts by hash to re-evaluate only changed questions. Added regrading limits, client/model cost tracking and reversible, append-only CSAT overrides.
- Maintain shared enterprise agent packages and delivery workflows. Built evaluations that test deployed agents through their communication channels and grade responses with LLM judges.
- Selected client delivery work. Visit London: live booking integrations with LTD and Ventrata APIs. Yamaha Motor Mexico: WhatsApp lead generation. Upside Drinks: bilingual French/English Shopify shopping assistant.

Shopify agent kit case study: https://worksofabhiram.live/botpress-ecommerce-shopping-agent-kit-case-study
Agentic Reporter case study: https://worksofabhiram.live/agentic-reporter-csat-agent-case-study
Client case studies: https://worksofabhiram.live/work

Software Engineer Jan 2022 - Oct 2022
Deloitte USI Consulting · Bangalore, India · Application development and automation

- Built automation for Aflac to categorize and route insurance claims requiring revision; developed internal dashboards, backend services and Selenium regression automation using .NET, JavaScript and SQL.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, SQL, Bash.
Application development: Node.js, React, Next.js, .NET, PostgreSQL, REST APIs.
AI systems: Botpress ADK, MCP, tool calling, RAG, semantic search, structured extraction, LLM evaluation, human handoff.
Tools: Git, GitHub Actions, Vitest, Jest, pytest, Selenium, Claude Code, Codex.

MERGED OPEN SOURCE CONTRIBUTIONS

Google Agent Development Kit · TypeScript · Merged PR #1169
Fixed workflow inputs being saved as user-authored chat messages. Added temporary session input, cleanup in finally, and a regression test using the real Runner and session service.
https://github.com/google/adk-js/pull/1169

AWS CDK CLI · TypeScript · Merged PR #2107
Fixed repeated single-value CLI options that could cause deployment to do nothing while exiting successfully. Added early validation and regression tests while preserving intentionally repeatable options.
https://github.com/aws/aws-cdk-cli/pull/2107

AWS Bedrock AgentCore SDK · Python · Merged PR #718
Fixed memory serialization crashes involving binary reasoning content. Added lossless encoding and decoding, with a regression test verifying that stored messages restore the original bytes.
https://github.com/aws/bedrock-agentcore-sdk-python/pull/718

Genkit · TypeScript · Merged PR #6956
Corrected repeated registration of plugin-provided tools.
https://github.com/genkit-ai/genkit/pull/6956

PR-Agent · Python · Merged PR #4603
Added commit-message context to AI review prompts, with token limits and untrusted-input boundaries.
https://github.com/The-PR-Agent/pr-agent/pull/4603

Tailscale GitHub Action · TypeScript · Merged PR #321
Normalized version inputs and rejected malformed versions before installation.
https://github.com/tailscale/github-action/pull/321

ENGINEERING PROJECTS

Architect · Creator and maintainer · Electron, TypeScript, MCP
Built a desktop application for architecture contracts, call-graph navigation and Git worktree review. Implemented dependency and cycle checks, PageRank-based function ranking, and optional human approval of Claude Code edits through PreToolUse hooks.
https://github.com/abhiramshaji-cyber/Architect

AI-assisted development workflow · Bash, Git worktrees, Claude Code
Built lifecycle hooks for checkout isolation, parallel-worker file locking and change-review gates. Documented 28 guard test cases, bypasses and enforcement limits.
https://worksofabhiram.live/claude-code-harness-hooks-codex-case-study

The Digital Uplift · Co-founder and developer · Next.js, React
Co-founded a student web-development studio and built its website with shadcn/ui, contact and booking flows, Google Analytics and SEO-focused routing.
https://digitaluplift.ca
https://github.com/abhiramshaji-cyber/the-digital-uplift

EDUCATION

Digital Design and Development Post-Graduate Diploma (Master's equivalent) 2023 - 2024
North Island College · British Columbia · Mobile App Development stream

Bachelor of Computer Applications 2017 - 2021
Bangalore University · India

WORK AUTHORIZATION

Authorized to work in Canada without employer sponsorship through February 2028.