

BHAVISH

Full-Stack AI Developer

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[Portfolio](#) • [GitHub](#) • [Resonance \(Live SaaS\)](#)

SUMMARY

Full-stack AI systems developer with 2+ years building autonomous vision-agentic AI pipelines, real-time streaming architectures (WebSockets, gRPC, SSE), and production desktop/web SaaS products. Core contributor to two ProductHunt-featured launches — #1 Product of the Day (AutoFlow) and #3 Product of the Day (NativeBridge). Known for fast, independent execution: shipped a production VS Code extension, a real-time mobile device streaming farm competing with BrowserStack, and a serverless AI voice SaaS on Modal GPUs.

EXPERIENCE

Full-Stack AI Developer — NativeBridge

Apr 2025 – Present

Remote • ProductHunt #3 Product of the Day

- Architected an autonomous vision-agentic UI testing pipeline combining multimodal LLMs with visual grounding for Android devices, translating natural-language prompts (e.g. “complete signup flow”) into multi-step mobile test scripts.
- Built the company's official VS Code extension for mobile test automation with fast, independent turnaround, engineering custom token storage and background auto-refresh to work around browser cookie limits — publicly praised by the CEO for delivery speed.
- Designed a low-latency WebSocket + ADB touch-gesture relay for remote Android/iOS physical devices, powering an interactive real-time touch-canvas streaming UI as part of a BrowserStack-style device farm.
- Built an end-to-end telemetry pipeline (on-device gRPC server → backend provider → main backend → SSE stream) delivering live device XML and screenshots for real-time Maestro code generation.
- Integrated an Appium Inspector proxy and architected a Self-Healing Test System that intercepts failed element lookups and auto-recovers broken locators via DOM-tree similarity search.

Full-Stack AI Developer — AutoFlow

Sep 2024 – Apr 2025

Remote • ProductHunt #1 Product of the Day

- Architected an autonomous vision-agentic UI testing pipeline for browser automation — combining multimodal LLMs with visual grounding to generate multi-step Playwright scripts from natural-language prompts (the browser-focused counterpart to the mobile version later built at NativeBridge).
- Designed Shadow DOM locator-extraction algorithms and an interactive multi-locator editing UI within the Electron desktop app.
- Delivered onboarding flows and a scalable component library on a tight pre-launch timeline, helping scale the platform for its ProductHunt #1 debut.
- Led frontend desktop architecture using React, MobX, and Electron.js IPC.

Frontend Developer Intern — AutoFlow

Dec 2023 – Sep 2024

Remote

- Built a high-precision element-inspection tooltip for live browser views — shared directly by the CEO and praised by clients.
- Developed hands-on expertise in Electron.js IPC, React component architecture, and MobX state management across complex web and desktop interfaces.

FEATURED PROJECTS

Resonance — Full-Stack AI Voice Generation SaaS [\[Live Demo\]](#)

- Built a multi-tenant AI voice-generation SaaS hosting the open-source Chatterbox TTS model on Modal serverless GPUs.
- Shipped a FastAPI backend and React frontend with Paddle subscription billing, multi-tenant workspace management, S3 audio storage, and Google OAuth.

Autonomous Vision-Agentic UI Test Pipeline (Browser) • [AutoFlow](#) • [Proprietary](#) • [#1 Product of the Day, ProductHunt](#)

- Multimodal LLM visual-grounding pipeline that executes browser steps in Electron while live-streaming generated Playwright code.

Remote Device Farm & Mobile Inspector • [NativeBridge](#) · [Proprietary](#) · [#3 Product of the Day, ProductHunt](#)

- Real-time mobile device streaming farm built with WebSockets, ADB, gRPC on-device servers, and SSE-based XML/screenshot streaming.

Self-Healing Automation Proxy • [NativeBridge](#) · [Proprietary](#)

- Python/FastAPI testing proxy that captures Appium element snapshots and applies DOM-similarity algorithms to auto-heal broken test locators on failure.

SKILLS

AI & Multimodal Agents: Vision LLMs, LangChain, LangGraph, Prompt Engineering, Claude Computer Use API, Chatterbox TTS, Modal Serverless GPUs, Vercel AI SDK

Full-Stack: TypeScript, JavaScript, Python, C++, React.js, Next.js 15, Node.js, FastAPI, Electron.js, MobX, Tailwind CSS

Real-Time & Streaming: WebSockets, gRPC, Server-Sent Events, RESTful APIs, Nginx

Mobile & Test Automation: Appium, Playwright, Maestro, ADB, DOM Similarity Search, Self-Healing Proxies

Data & Infra: PostgreSQL, MongoDB, Amazon S3, Docker, GCP, Google OAuth 2.0, Paddle Billing, Vercel

EDUCATION

M.Sc. Computer Science

Graduated 2024