

# ABHAY BISHT

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## EXPERIENCE

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### Zycus (Tario.ai)

Aug 2025 – Jan 2026

Software Engineer – 1

Bangalore

- Engineered a core **Agentic AI workflow** using **LLMs** and **RAG** to generate **personalized outreach emails** from **lead data** and **knowledge bases**, complemented by an **interactive chat interface** enabling users to **edit AI-generated messages** and save refined outputs as reusable **templates** across **campaign workflows**.
- Built an **LLM-powered call analysis dashboard** with **audio playback** and **LLM-generated transcripts**, featuring a **config-driven, widget-based UI** with **drag-and-drop widgets** for **tenant-specific customization**.
- Developed a **Campaign Management UI** and **mapping agent**, enabling users to **upload leads**, **auto-map fields**, and **configure multi-channel sales sequences** (email, call, LinkedIn).
- Developed the complete **end-to-end dialing flow**, enabling users to **create dialing lists**, **upload CSVs**, and perform **manual one-to-one** as well as **parallel dialing** using the **Twilio Voice SDK**.
- Implemented **call disposition workflows** to capture user feedback and drive **lead scoring and prioritization**, determining **optimal callback times**, **next actions**, and **sorting order**.
- Built **asynchronous call recording processing** using **SQS**, with recordings stored in **S3**.
- Established **tenant-level data isolation** across **Twilio** using **parent accounts**, **sub-accounts**, and **Twiml configurations**, ensuring secure **multi-tenancy**.
- Integrated **Aby** for **real-time event updates** and leveraged **SQS** and **SNS** for **reliable event processing** and **real-time notifications**, delivering immediate visibility into **agent execution** and **workflow progression**.
- **Tech Stack** - TypeScript, Python, React.js, Redux Toolkit, Storybook, Tailwind CSS, Material UI, Twilio, FastAPI, AWS ( SQS, SNS ), MongoDB, React Query, LangChain, LangGraph, LangSmith, RAG, dnd-kit.

### 314e Corporation

Aug 2024 – Aug 2025

Software Engineer – 1

Bangalore

- Built an **end-to-end tipsheet creation workflow** enabling **content creators** to create **instructional PDFs** manually or **extract content from videos**, with full support for **image uploads**, **steps dnd**, and **step data storage** using **Cloudflare R2**, and is the **most-used asset on the platform**, serving **50K+ daily users**.
- Developed **interactive annotations** such as **Knowledge Checks**, **Hotspots**, and **Input Fields** to capture and analyze **learner responses** during content consumption.
- Developed **non-interactive canvas annotations** including **shapes**, **zoom in/out**, **blur**, **callouts**, and **annotation animations** using **Fabric.js**, enabling creators to **highlight critical video segments**.
- Developed **end-to-end authoring stage & activity panel** to track asset stages from **editing** to **publish** and capture events like **publish**, **archive**, **draft**, and other events, providing complete visibility across **asset operations**.
- Contributed to building **screen recording functionality** using **Chrome Recording APIs** along with **webcam filters** powered by **MediaPipe**.
- Built an **end-to-end script editor** with **LLM-powered text transformations** to **shrink**, **expand**, and **enhance** scripts.
- Developed a **digital teleprompter** that **performs STT** and **fuzzy matching** to **highlight the most similar sentence** in **real time**, assisting users during recording.
- Established a **design system and component library** using **Storybook**, **Tailwind CSS**, and **atomic design principles**.
- **Migrated** the frontend **codebase** from a **monorepo** to **Turborepo**, **improving build efficiency by 25%** and **reducing bundle size** through **tree shaking**.
- **Tech Stack** – TypeScript, Python, React.js, Fast API, PostgreSQL, Cloudflare ( R2 ), Tailwind CSS, Ant Design, Turborepo, Storybook, Fuse.js, React STT, Fabric.js, React Query, dnd-kit, AG Grid, SonarQube.

### Gappy.ai

Dec 2023 – May 2024

Software Engineer Intern

Bangalore

- Developed an **AI-powered Copilot SDK** capable of handling **contextual responses** and **diverse content types**, including **markdown**, **tabular data**, and **graphical outputs**.
- Built a **dashboard** for **managing agents**, **copilot themes**, **knowledge bases**, and **tools**, and for **analyzing usage metrics**, **cost tracking**, and **knowledge graphs** using both **tabular and graphical views**.
- Enabled **tool-calling and RAG capabilities**, where tools and knowledge bases are dynamically configured via the dashboard and invoked by **AI agents** during conversations.
- Designed a **modular, config-driven architecture** allowing **Copilot theming** and behavior to be controlled via **dashboard configurations**.

- Implemented backend APIs for **billing, analytics, knowledge bases, agents, and chat workflows**.
- Integrated **Supertokens** for authentication, **Dopt** for guided onboarding flows for new users, and **Mixpanel** for detailed user interaction analytics.
- **Tech Stack** – TypeScript, Python, Next.js, React.js, FastAPI, PostgreSQL, RAG, AI Agents, Tailwind CSS, Nivo Charts, Socket.io, Supertokens, Mixpanel, Dopt, Lang-Chain, Mintlify.

## EDUCATION

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**J.C. Bose University of Science and Technology, Faridabad**

**2020 – 2024**

*B.Tech in Computer Science with specialization in Data Science*

*CGPA: 7.92 / 10*

## TECHNICAL SKILLS

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<b>Languages:</b>	TypeScript, JavaScript, Python, C++.
<b>Frontend:</b>	React.js, Next.js, React Native, HTML5, CSS3, React Query, Storybook, Turbo Repo.
<b>State:</b>	Context API, Redux Toolkit, Zustand.
<b>Backend:</b>	Node.js, Express.js, FastAPI, Rest APIs, Prisma ORM, Mongoose.
<b>Database:</b>	MongoDB, Redis, PostgreSQL, MySQL, Supabase, Convex.
<b>Auth:</b>	NextAuth.js, Clerk.js, SuperTokens, Better Auth.
<b>AI Tools:</b>	OpenAI, Claude, Gemini, Grok, Cursor, Vercel v0, Code Rabbit, Sonar Qube, ElevenLabs, Composio.
<b>GenAI:</b>	R.A.G, Lang-Chain, Lang-Graph, Lang-Smith, Open-AI SDK, Crew AI, AI Agents, Llama Index, Pinecone.
<b>Libraries:</b>	Tailwind CSS, Shadcn UI, Ant Design, Material UI, Radix UI, Fabric.js, Nivo Charts, AG Grid, Dnd Kit, Lodash, Block Note, Tiptap Editor, Uppy.
<b>Payment:</b>	Stripe, Razorpay.
<b>Other:</b>	AWS ( S3, SQS, SNS), Cloudflare (R2), Data Structures & Algorithms ( DSA ), Data Science, Web Scraping, Git, GitHub, Swagger, Docker, Kubernetes.

## PROJECT

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### SuperNeuro AI

[Link](#)

- Built an AI-powered **knowledge base and tool orchestration** platform with **RAG-based chat and agent-driven tool execution**.
- Architected a **distributed asynchronous ingestion pipeline** with multipart PDF uploads to **Cloudflare R2** using **Uppy** and background processing via **AWS SQS**.
- Implemented **multiprocessing for the knowledge base pipeline**:
  - \* **Concurrent page-level PDF chunking and vector indexing** using LlamaIndex and Pinecone.
  - \* **Image extraction from documents with OCR-based text extraction** using the **OpenAI Vision model**, followed by vector indexing via LlamaIndex and Pinecone.
- Designed and implemented an **execution graph** that analyzes user intent, selects required tools for a workflow, and conditionally branches execution to either **Composio-based tool nodes** or direct LLM responses.
- Integrated external tools via **composio**, including **Gmail, Google Docs, Google Drive, Google Sheets, Notion, YouTube, Reddit, Tavily, and Firecrawl** for AI-driven workflow automation.
- Developed a **real-time, event-driven system** using **Abyly** with **Redis caching** for conversations and message streaming.
- **Tech Stack:** Next.js, TypeScript, Node.js, Express.js, Prisma, MongoDB, Redis, Cloudflare R2, AWS SQS, Pinecone, OpenAI, LangGraph, Abyly, Uppy, Composio, RAG.

### Wintrace AI

[Link](#)

- Built an **AI-driven productivity platform** that analyzes users' **daily reflections** and automatically generates **structured performance reports** mapped to **predefined or custom wins**.
- Enabled users to record **video or audio entries**, which are uploaded to **Cloudflare R2** for processing.
- Designed an **asynchronous processing pipeline** triggered on media uploads, leveraging **AWS SQS** for **background task execution**.
- Implemented **audio extraction** using **FFmpeg** and **STT** using **AssemblyAI** and **ElevenLabs**, followed by **LLM-based structured data extraction** to map reflections to **user-configured daily wins**.
- Developed an **LLM-powered summarization system** that generates **comprehensive daily reports** highlighting achievements, challenges, and emotional tone.
- **Tech Stack:** React, TypeScript, FastAPI, Python, Prisma, MongoDB, AWS SQS, Cloudflare R2, LangChain, OpenAI, Grok, AssemblyAI, ElevenLabs, FFmpeg.