Bismit Panda

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Summary

Co-Founder & CTO of AstraQ Cyber Defence, building security and AI platforms end to end, from Rust and Go infrastructure to the product on top. Architected Athena, a Kubernetes-native CTF platform that has hosted 1,200+ players across 650+ teams, and Morpheus, an AI-driven malware analysis platform. Sole developer of 10+ production applications at OpenVenture. Most of my work lives in private organization repositories; architecture walkthroughs on request.

Experience

Co-Founder, Agentic Human Nov 2025 - Present

Voice AI startup building prebuilt "Digital Employee" agents that answer phone calls and chat.

- Built the Voice Agents platform: Rust telephony gateway with on-device VAD, speech-to-text, and text-to-speech over Twilio and Exotel.
- Designed sandboxed tool execution on a deno_core isolate pool, with BYOK OpenAI-compatible LLMs and a prepaid usage wallet.

Co-Founder & CTO, AstraQ Cyber Defence Jun 2025 - Present

Cybersecurity company building CTF, training, enterprise RAG, email security, and malware analysis products.

- Architected Athena, a Kubernetes-native CTF platform with per-event isolation and per-team challenge instances on ECS Fargate; hosted Athena CTF 2026 for 1,200+ players across 650+ teams.
- Built Morpheus, an AI-driven malware analysis platform combining static and behavioural analysis with an agentic investigation loop.
- Owned Phoebe (enterprise RAG) and Athena LMS (hands-on security training with live labs) end to end; built most of Metis Mail (AI mail client).
- Own technical architecture, infrastructure, and stack decisions across the product suite; co-designed the Tiller Cyber Defense Challenge 2026.
- Company recognitions: Top 6 finalist, NCIIPC Startup India AI Grand Challenge; grant recipient at India Mobile Congress 2025.

Full Stack Engineer, OpenVenture (formerly Greencard Inc.) Feb 2025 - Present

US-based company building products across immigration, hiring, admissions, and investment verticals.

- Sole developer on 10+ production apps across the OpenVenture product suite, all Next.js and TypeScript on Vercel.
- Built visarchitect.com: full-stack immigration platform with multi-page dashboard, LLM-based immigration status evaluator, and a RAG pipeline (integrated from acquired product Visa Vibe).
- Built openhired.com: full-stack hiring platform with marketing site and candidate-facing dashboard.
- Built openadmits.com: admissions platform with Next.js frontend and headless CMS integration.
- Built and shipped terrabridge.ai, openventure.com, legallounge.ai, openinvests.com, shoutstart.com +2 more.

Tech Development Intern, Global Eye Intelligence Jan 2025 - Nov 2025

Web platform and AI agents for processing geopolitical intelligence.

- Built the web platform and the AI agents that process incoming intelligence data.
- Led a team of 6+ developers across the frontend, AI pipeline, and scrapers.
- Cut manual data aggregation by about 80% with automation and custom AI tools.

Software Engineering Intern, IIT Bombay Nov 2023 - Feb 2024

Clinical medical calculator for doctors with a React frontend and Django backend.

- Built a clinical medical calculator; React frontend, Django backend.
- Led architecture design and mentored 4 student contributors.

Skills

Languages: Rust, Go, TypeScript, Python, C++, Kotlin

Frontend: React, Next.js, TanStack Start, Tailwind CSS, Tauri

Backend: Axum, Tokio, gRPC/Protobuf, Hono, oRPC, Better Auth

Databases: PostgreSQL, Redis, ClickHouse, Milvus, Qdrant, MongoDB

Infrastructure: Kubernetes (EKS, GKE), Helm, Envoy Gateway, AWS (ECS Fargate, Lambda), Docker, Xen

AI/ML: Agentic tool loops, RAG and hybrid search, voice pipelines (VAD/STT/TTS), MCP

Projects

Morpheus: AI-driven malware analysis platform in Rust: static and behavioural analysis with an agentic investigation loop

Voice Agents: Voice AI agent platform in Rust: on-device VAD/STT/TTS over Twilio and Exotel, deno_core tool sandbox, runs unmodified on EKS, GKE, and DOKS

Phoebe: Enterprise RAG platform (Rust, Milvus hybrid search, Kubernetes sync jobs) built end to end

Planr: Multi-tenant project management platform with AI agents for planning and PR review (Next.js, Mastra, Kafka, Qdrant, ClickHouse)

Athena CTF Platform: Kubernetes-native CTF platform (Rust, Go, TypeScript) with per-team ECS Fargate instances; hosted Athena CTF 2026 for 1,200+ players across 650+ teams

Panda: Rust interpreter and compiler with AST tree-walker evaluator and VM architecture

Education

B.Tech in Computer Science and Engineering (Cybersecurity specialization) Aug 2022 - Jun 2026

Rashtriya Raksha University

Schooling *(CBSE 10th: 96.8%, CBSE 12th: 92.4%)* Jul 2009 - May 2022

D.A.V. Public School

Achievements & Certifications

- GATE 2025 Qualified
- NTSE Qualified, top 1% nationally
- Certified Ethical Hacker (CEH), EC-Council | 2023–2026
- Rust 101, TCM Security | 2023