Brian Di Bassinga

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SUMMARY

Yale CS senior and D1 athlete blending product ownership with deep systems work. Translate user research into roadmaps, ship resilient backends and real-time UIs, and measure success (adoption, latency, hours saved). Built tools used by 1,000+ users and an AI orchestration thesis ensuring trustworthy agent handoffs. Passionate about AI, reliability, and scalable UX.

EDUCATION

Yale University   May 2026
BS, Computer Science, Certificates in Chinese (Mandarin) and Education Studies

GPA: 3.6/4
Coursework: Machine Learning, Full Stack Web Programming, Data Structures, Algorithms, Systems Programming, Yale SOM Management of Software Development (Agile Development), Blockchain and Cryptocurrency
Honors: 5x All-Ivy Team (Triple Jump), USTFCCA Academic All-American, Berkeley M.E.T Scholarship Recipient

PROJECTS

Senior Thesis – **Geometric Agent Orchestration for Biological Reasoning**
Advisor: Smita Krishnaswamy • Python/PyTorch, gPRC, LangGraph
- **Owned the reliability layer** of a cutting-edge multi-agent AI system, **ensuring trustworthy scientific reasoning**.
- **Designing reinforcement learning frameworks** agent handoff of geometric presentation of genomic, single-cell data.

AI Discord Live Translator – *Node.js, WebSockets, Deepgram Nova-3* | https://livecalltranslator.netlify.app/
- **Validated demand via search trend analysis** and international Discord pilots; iterated toward product-market fit.
- Built and deployed a **real-time transcription & translation bot** with sub-second latency and per-speaker subtitles.

EXPERIENCE

Technology Consultant Intern (AI Product Engineer)   Jun 2025 – Aug 2025
Protiviti – Global Consulting firm   *Houston, TX*
- **Cut Role-Based Access Control (RBAC) review time from hours to seconds,** as measured by end-to-end pilot walkthroughs, **by building an AI org-chart generator** that transforms Workday/Oracle spreadsheets into interactive graphs.
- **Enabled non-technical stakeholders to self-serve insights,** as measured by eliminationg SME handoffs during pilots, by shipping an async CLI with natural-language queries and fuzzy file selection with Docker-hosted MCP and Python.
- **Accelerated stakeholder buy-in,** as measure by leadership approval to formalize an AI automation role, by running discovery interviews and iterating prototypes into production-ready demo and releases.

Full-Stack Engineer, YaleIMs.com   Oct 2024 - Present
Yale Computer Society – Intramural Sports   *New Haven, CT*
- **Reached 1500+ students (~25% of undergraduates),** as measured by unique users in the first semester following launch, by rebuilding the intramural system from Excel to a responsive web application with real-time Firestore sync.
- **Reduced admin overhead to near-zero,** as measured by replacing of manual spreadsheets, by automating registration, scheduling, standings, and score updates in Firebase Functions and integrating Google Calendar to help attendance.
- **Increased contributor velocity,** as measured by faster PR cycle times, by authoring onboarding docs coding standards.

Founding Technical Product Manager   Jan 2024 - Present
Reaching Audiences Worldwide (The RAW Platform)   *Houston, TX*
- **Architected a scalable backend infrastructure** using Cosmos DB and Azure serverless functions to power a user-first digital marketplace for student-athletes, influencers, and local businesses forming campaign teams to create digital marketing assets.
- **Designed secure, role-based onboarding and user flows** for three user personas (business, athlete, influencer), with real-time dashboards driven by Firebase and React, and using OAuth integrations with Google/Microsoft.
- **Led a 3-person engineering team,** translating business vision into agile technical roadmaps, and drove delivery of core features through **Agile methods**, documentation, and rapid prototyping to test feature utility with non-technical stakeholders.

SKILLS

Languages: Python, Java, C, C++, JavaScript/TypeScript, Node.js, D, Fluent in French, Intermediate Spanish and Chinese

Frameworks/Tools: React, Next.js, Firebase, Docker, PyTorch, Scikit-Learn, Pandas, LangGraph

Specialties: Product Development, Full-Stack Systems, ML Pipelines, Real-Time Applications, Cloud Architecture, Identity Solutions