

Abigail Briones

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Education

University of Rochester
B.S in Computer Science

Expected May 2029
GPA: 3.83/4.0

Skills

Languages: TypeScript, Python, Java, JavaScript, SQL. **Frameworks:** React, Next.js, Node.js, LangChain.
AI/Data: RAG, vector embeddings, semantic search, Pinecone, Hugging Face. **Cloud/Databases:** PostgreSQL, Supabase, Firebase, Vercel, Docker. **Systems:** REST APIs, authentication, RBAC, row-level security

Experience

Incoming Technical Solutions Intern, Sales & Technology Support

Internship

IBM *June 2026 - August 2026*

- Build enterprise demos, technical presentations, and solution materials for AI, automation, cloud, and IBM cross-portfolio software opportunities across Peru and Ecuador.
- Translate customer requirements into technical discovery notes, product recommendations, architecture-aligned solution plans, and implementation narratives.
- Analyze client workflows and technical constraints to map IBM technologies to business problems across generative AI, automation, cloud, data governance, and enterprise software.
- Support pre-sales engineering by communicating technical tradeoffs, product capabilities, and implementation considerations to customers and internal stakeholders.

Founding Software Engineer

Remote

LEAD Americas | Microsoft-supported nonprofit

Dec 2025 - Present

- Shipped production talent platform connecting 1,400+ STEM students across Latin America and the U.S
- Architected full-stack Next.js, TypeScript, Supabase, and PostgreSQL system from zero to deployment, owning API design, schema design, component architecture, and Vercel infrastructure.
- Engineered secure multi-tenant data access with normalized PostgreSQL schema, indexed queries, foreign keys, RLS policies, RBAC, and SSR authentication middleware.
- Built end-to-end recruiting infrastructure for onboarding, applications, approvals, attendance tracking, resume access, profile visibility, and recruiter workflows.
- Implemented audit logging, storage permissions, email workflows, and privacy controls

Projects

KeplerLab - Asteroid Creator | *1st Place, Data Bloom Contest 2026* github.com/abigailbrionesa/kepler-lab [↗](#)

- Built GPU-accelerated 3D web app visualizing 40,000+ asteroid and planetary orbits using NASA JPL data
- Developed physics-based orbital simulation engine enabling real-time manipulation of six Keplerian parameters (<60ms frame updates)

ROC Spirit AR App | *1st Place, MLH Hackathon DandyHacks 2025* github.com/abigailbrionesa/roc-spirit [↗](#)

- Built AR-powered mobile campus tour; integrated Blender 3D models with real-time optimized image recognition
- Designed gamification engine (points, quizzes, mini-games) with Supabase Realtime for live state sync

WarmiMIND | *2nd Place* (out of 200), *STEMpowerHacks 2026* github.com/abigailbrionesa/warmimind [↗](#)

- Built full-stack AI tutoring platform with culturally adapted STEM content using React, Next.js, Google Cloud Translation API, and React-PDF; implemented AI-driven Q&A, summarization, and tutoring pipeline.

YachayBot | *3rd Place, INFORTELGRAF Perú Hackathon 2025* github.com/abigailbrionesa/yachaybot [↗](#)

- Built multilingual RAG chatbot using LangChain and HuggingFace gte-large (1,024-dim embeddings) on Pinecone for real-time semantic search over academic corpora; with session-based authentication.

SheConecta | *1st Place, Hackathon WIE NextGen Innovators 2025* github.com/abigailbrionesa/sheconecta [↗](#)

- Led a 4-member team in developing SheConecta, a socially impactful mobile app for women in STEM.
- Architected React Native frontend + Firebase backend (auth + Firestore); delivered final-round pitch

Leadership Activities

Tech Lead - Google Developer Club

Sep 2025 - Present

- Led GitHub & Git workshop: taught version control, merge workflows, and real-time repo collaboration
- Co-hosted LinkedIn & resume workshop: gave actionable feedback to boost CS students' professional profiles

Representative - Society of Hispanic Professional Engineers

Sep 2025 - Present

- Lead outreach to students, assessing interests and needs; implement solutions with EBoard

Programs & Communities: Silicon Valley Fellowship (April 2026 Cohort), Break Through Tech (2026 Cohort) AI Program, Rewriting the Code, ColorStack, CodePath, Women and Minorities in Computing