

# BRIAN E. PINEDA

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## Education

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### Rutgers University

*B.S. in Computer Science and Electrical Engineering — GPA: 3.8/4.00 — Dean's List*

Expected May 2029

*New Brunswick, NJ*

## Relevant Coursework

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- Data Structures
- Algorithms
- Computer Architecture
- System Programming
- Software Methodology
- Data Management
- Programming Languages
- Discrete Structures

## Experience

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### 361Firm

May 2026 – Present

*Software Engineering Intern*

*Remote*

- Audited a **40,000+ line React/Next.js** platform serving **25,000+ investors** and **900+ deals** by producing structured documentation of functional zones, resulting in an accessible internal reference and identified targets for modularization.
- Cut interactive **SVG world-map** marker rebuilds from **8 per pan to 0** by applying **React 19 memoization** across **1,140 mapped entities**, pinned by a render-count regression test to prevent silent regressions.
- Shipped **3 merged full-stack features**, including a meeting-transcript insights pipeline, idempotent event check-in dedupe library, and **WorldMap UX** fixes, by extracting logic into testable lib modules on **Vercel-deployed Next.js 15**, adding **700+ lines** across UI, lib, and tests.
- Stood up the **first test coverage** on a **15,000-line** untested monolith by introducing **5 Vitest suites** totaling **600+ lines**, all running inside an enforced CI gate of typecheck, lint, build, and a **2,541-test suite**.

## Projects

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### GenCost — AI Agent & Routing Platform | *Python, FastAPI, Claude, LLM APIs*

April 2026

- Designed an **AI agent** by building a smart router that selects the optimal model and tool per request across **6 integrated services**, applying **prompt engineering** and configurable quality thresholds.
- Configured and validated integrations across **6 external service connectors** spanning LLM, image, mapping, and audio APIs by documenting tool behavior and request/response schemas, resulting in reliable cross-service operation.
- Built a **natural-language interface** that translates user instructions into structured tool calls by driving development with **Claude** and structured **CLAUDE.md** context files, resulting in an in-app assistant that automates repetitive workflows.

### Android Photos App | *Java, Android Studio, Git*

November 2025 – December 2025

- Built a complete Android photo management app by porting a **JavaFX** desktop project into **Java**, restructuring **4 OOP model classes** with clean separation of concerns into a stable mobile product with **6 features**.
- Resolved complex lifecycle and rendering defects by systematically debugging **Activity transitions**, **RecyclerView** binding, and **URI permissions**, achieving consistent UI behavior across **3+ emulator configurations**.

### PC Hardware Price Predictor | *Python, SQL, SQLite, Pandas*

January 2026 – May 2026

- Designed a **5-stage Python** backend pipeline with automated validation at every stage, processing **9,497 raw records** into a **SQLite** relational database with **3 normalized tables** totaling **75,000+ rows**.
- Built cross-source data matching for **2,106 components** using **SQL** queries and composite-key logic with outlier detection, documenting the full pipeline for reproducibility and team onboarding.

## Technical Skills

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**AI & Automation:** Claude / Claude Code, AI agent design, prompt engineering, LLM API integration, structured CLAUDE.md context and skill files, API connector integration

**Languages:** Python, JavaScript, TypeScript, Java, SQL, C, C++, HTML/CSS

**Tools & Platforms:** FastAPI, React, Next.js, Node.js, Git/GitHub, REST APIs, Supabase, Microsoft 365, AWS

**Strengths:** Technical documentation, organization, time management, written and verbal communication

## Leadership / Extracurricular

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### Mexican American Student Association (MASA)

September 2025 – May 2026

*Public Relations Chair*

*Rutgers University, New Brunswick, NJ*

- Design 2–3 promotional pieces weekly using coordinated messaging with the executive board, driving stronger event engagement and visibility across the organization.
- Lead the organization's digital presence by managing website development and social media content strategy, ensuring consistent communication and brand alignment.