

Brandon Garate

(619) 361-9906 | brandongarate177@gmail.com | brandon-garate.com | github.com/BrandonGarate177 | linkedin.com/in/brandongarate177

EDUCATION

San Diego State University

San Diego, CA

B.S. Computer Science · Minor in Mathematics

Expected May 2027

- **Relevant Coursework:** Distributed Systems · Algorithms · Intro to AI · Advanced Statistics · Linear Algebra
- **Campus Leadership:** CTRL Hackathon Committee - ColorStack @ SDSU Executive – Led career-development workshops – Organized a 120-attendee hackathon.

EXPERIENCE

Cloud Automation Engineering Intern

Jun 2026 – Aug 2026

DishTV / EchoStar

Denver, CO

- Built a RAG pipeline indexing **27,000+ network documentation files** into a Bedrock Knowledge Base, cutting vRouter troubleshooting time from **15 minutes to under 30 seconds** and enabling fleet-wide batch operations previously requiring individual SSH sessions.
- Architected a multi-runtime AI agent system on **AWS Bedrock AgentCore**, orchestrating **15+ tool-enabled LLM agent workflows** via an MCP gateway with SigV4 authentication and semantic tool discovery.

Founding Engineer

Apr 2026 – Jun 2026

Ix-Infra

San Diego, CA

- Designed and shipped **tree-sitter-sas**, a SAS language grammar for tree-sitter, eliminating two critical parsing gaps (**82%** and **78% miss rates**) identified during production ingestion testing – achieving **zero parse failures** across **32 tests** and unblocking accurate codebase indexing for biotech and biomed clients.
- Built the SAS and R language parsers for Ix's ingestion pipeline, modeling macros and DATA/PROC steps as first-class graph entities for an AI-memory CLI that **cuts LLM token usage** on development tasks by up to **99.7%**.

Founding AI Engineer Intern

Nov 2025 – Feb 2026

GradeFlow

San Diego, CA

- Owned end-to-end development of an audio transcription pipeline in Go, proxying between client uploads, ElevenLabs voice agents, and downstream evaluation services – used daily by **850+ students** with **1.8s** transcription latency.

Founder / Software Engineer

Jul 2025 – Jan 2026

CoTeX

San Diego, CA

- Built a codebase-aware Markdown editor integrating GitHub OAuth and webhooks to surface real-time repository context for engineering teams, **onboarding 50+** beta users during initial launch.
- Conducted **35+ customer discovery interviews** with professional engineers; insights revealed low adoption, driving a pivot to a GitHub-native agent that auto-updates project documentation on code changes.

OPEN SOURCE

VibeDrift | github.com/VibeDrift/VibeDrift

- Replaced regex-based import/export parsing with tree-sitter AST resolution in VibeDrift (open-source static-analysis CLI, 49 stars) across **5 merged PRs**, cutting unused-export false positives **70% (79– >24)**.

PROJECTS

San Diego Real Estate Dev Assistant | github.com/BrandonGarate177/SanDiego_x_Claude

- Built a domain-specific RAG pipeline using **Claude** for multi-step intent classification over **5 San Diego GIS datasets** and municipal zoning code, with spatial cross-referencing via **GeoPandas** and **ChromaDB**.

SKILLS

AI Agents & Orchestration: AWS Bedrock AgentCore · MCP · Claude Sonnet 4 · Strands Agents SDK
RAG & AI Tooling: RAG pipelines · FAISS · SentenceTransformers · tree-sitter/AST parsing · Ollama
Languages: C++ · Python · Go · TypeScript · SQL
Cloud & DevOps: AWS · GCP (Cloud Run) · Docker · Kubernetes · GitHub Actions