

Brett Rosenberg

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EDUCATION

University of Central Florida

Orlando, FL

Bachelor of Science in Computer Science | GPA: 3.8 / 4.0, Dean's List

May 2026

- Relevant Coursework: Machine Learning, Linear Algebra, Data Structures, Statistics, Enterprise Computing, OOP

EXPERIENCE

Foundation Health

Orlando, FL / Remote

Software Engineer

March 2026 – Present

- Ship full-stack features across an AI-powered medication refill-authorization platform embedded in Epic (SMART on FHIR, CDS Hooks) — SvelteKit/TypeScript app, Node.js APIs, Prisma/PostgreSQL, and a Python LangGraph LLM service; 100+ production PRs merged in first 4 months
- Designed 20+ deterministic clinical resolvers (lab recency, within-normal-limits, dose duration, controlled substances, brand/generic matching) replacing LLM calls with auditable logic, raising the eval pass rate from 91.5% to 99%
- Engineered FHIR ingestion and evidence prioritization: bounded pagination on all bulk fetches (fixing truncation that hid 80% of a patient's labs), new resource pipelines, and token-budget evidence tuning for LLM prompts
- Own GCP infrastructure via Terraform and CircleCI: Cloud SQL with IAM auth, build-migrate-deploy pipelines across four environments, scheduled Cloud Run jobs; parallelized the PHI redaction service, cutting latency from ~50s to 13s
- Hardened security and HIPAA compliance: JKU-issuer binding on CDS Hooks JWT auth, RSA key rotation, and client-side PHI redaction covering patient, pharmacy, and provider identifiers

Universal Orlando Resort

Orlando, FL

AI & Mobile Developer Intern

June 2025 – December 2025

- Led development of the AI-105 intelligent triage platform addressing a ~60% ticket reroute rate — improved classification, routing, and escalation summaries via MCP-based orchestration; architecture reviewed with Microsoft Foundry IQ consultants
- Integrated intelligent services into a production Flutter app via a unified middleware/API pattern on the enterprise AI Gateway (OpenRouter), building features for structured text and image inputs with real-time analysis
- Presented automation strategy to engineering leadership, demonstrating n8n workflows for character generation, sentiment analysis, and a brand-aligned social media auto-response bot as future internal tooling

Machine Learning Published Research Author & AACE 2025 Co-Author

Orlando, FL

Undergraduate CS Department Research

May 2024 – May 2025

- Data lead and co-author on AACE 2025 ML research using CGM health data to model hypoglycemia severity
- Built end-to-end Python ML pipelines (regression, decision trees, XGBoost) on a 10,000+ patient dataset
- Presented findings to AdventHealth executive leadership, shaping the poster and conference presentation

PROJECTS

ADHD Focus Mode | Chrome Extension APIs, LLM Integration, Canvas LMS

- Led a 7-person team as Project Manager, owning scope and sprint planning to deliver a Chrome extension improving cognitive accessibility for Canvas users
- Built AI features including assignment summarization and automated task breakdown using LLMs

Roblox Games | Lua, Roblox Studio, Game Systems, Analytics

- Architected and deployed large-scale Roblox games with a team, designing modular gameplay systems and dynamic quest logic for complex, multi-stage player experiences
- Reached 2.5M+ total plays and grew a combined community of 8,000+ members through analytics-driven iteration, live content updates, and player engagement strategies

TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, Java, C/C++, C#, SQL (PostgreSQL, MySQL), HTML/CSS, Dart

Frameworks & SDKs: SvelteKit, React, Node.js, Express, FastAPI, Flask, Prisma, Flutter

Cloud & Infrastructure: GCP (Cloud Run, Cloud SQL, Pub/Sub), Terraform, CircleCI, Azure, AWS, Docker, Linux

AI / Machine Learning: LLM pipelines, LangGraph/LangChain, OpenAI API, evals, MCP, n8n, scikit-learn

Healthcare: HL7 FHIR, SMART on FHIR, CDS Hooks, Epic integration, HIPAA/PHI redaction

Tools: Git, GitHub/GitLab, Postman, OpenAPI, Jira, TDD