

BRYSON REYES

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[LinkedIn](#)

Highly driven computer science new grad with experience building and shipping software across research, cloud, and web development environments. Passionate about problem-solving and writing clean, impactful code, eager to bring these skills to a software engineering role.

EDUCATION

B.S. COMPUTER SCIENCE

California State University, San Marcos | 3.95 GPA
MAY 2026

ASSOCIATE IN SCIENCE (A.S.) IN MATHEMATICS

Palomar College, San Marcos
AUGUST 2023

PROJECTS

Automated Motion Tracking System | Python, OpenCV, NumPy, Pandas, Tkinter

- Built a computer vision application in a 4-person team to automate behavioral analysis of fruit flies for genetics obesity research, replacing manual observation methods
- Implemented object detection and centroid tracking via adaptive thresholding and contour detection, extracting motion metrics (distance, velocity, active duration) with pixel-to-centimeter calibration
- Developed a GUI enabling non-technical researchers to upload videos, view real-time feedback, and export results
- Collaborated with a faculty research sponsor using agile methodology with weekly sprints

LLM Cloud Deployment & Cost Benchmarking | GCP, GKE, k6, Docker, Git, Python

- Deployed DeepSeek-R1-Distill-Qwen-1.5B as a CPU-only containerized inference service on GKE, benchmarked across 3 instances (e2-standard-4, e2-standard-8, c3-standard-4)
- Built a load testing tool to measure throughput, p50/p95 latency, and cost per 1,000 tokens
- Evaluated Horizontal Pod Autoscaling behavior under simulated 3x burst traffic to quantify performance tradeoffs

[Spotify Playlist Commit Graph](#) | React, Vite, Tailwind CSS, Spotify API, Vercel

- Built a web app that visualizes Spotify playlist activity as GitHub-style contribution heatmaps, displaying track additions over time with per-user attribution
- Implemented OAuth 2.0 PKCE authentication flow and integrated Spotify Web API
- Designed client-side architecture with API response caching to minimize infrastructure costs while maintaining read-only, privacy-conscious data access

SKILLS

Languages

- Python, C/C++, Java, JS, SQL

Frameworks/Libraries

- React, OpenCV, NumPy, Pandas, Tailwind CSS

Tools

- Git, Docker, GCP, Kubernetes, Vercel

Concepts

- REST APIs, OAuth 2.0, Computer Vision, CI/CD

RELEVANT EXPERIENCE

ORDER PROCESSOR | VALLEY RADIOLOGY CONSULTANTS MEDICAL GROUP | POWAY, CA

JULY 2023 - PRESENT

- Accurately enter patient orders into a database, quickly and efficiently
- Process orders based on priority, time, and date desired by patients
- Communicate effectively with other departments to ensure timely order fulfillment
- Adhere strictly to security protocols when handling confidential data