Brayan Mejia Nunez

Computer Science Student and Software Developer | Elk Grove, CA
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TECHNICAL SKILLS & INTERESTS

- **Languages:** C, C++, Java, Python, Swift, Javascript, HTML, CSS, SQL, x86 Assembly
- **Technologies:** Git, GitHub, Unix, Bash/CLI, React, Tailwind CSS, SwiftUI, Jira, Confluence, Encryption Standards, XCode
- **Concepts:** Object-Oriented Programming, Data Structures and Algorithms, Project Management, Scrum, Agile
- **Interests**: Machine Learning, AI, Data Science, Web Development, Sustainability, Woodworking, Guitar
- **Bilingual:** Fluent in English and Spanish

RECENT PROJECTS

GuLP: Augmentative and Alternative Communication (AAC) Device for Gestalt Language Processors *February 2025 - Present*
Hornet Hacks 2.0 - 1st place Overall & 1st in Education out of 100+ competitors

- Pioneering the development of the **first AAC app** specifically designed for Gestalt Language Processors.
- Collaborating with a team of Professional Speech-Language pathologists to ensure clinical efficacy and applicability.
- Designed an intuitive frontend and database using **Swift** and **SQLite3** connected to a **Python** backend using **custom APIs**.
- Leveraged 5 custom-built **AIs** to support gestalt language processors in communicating in a way that makes sense to them.

WildSight Analytics: Advanced Invasive Species Tracker *October 2024 - November 2024*

- Developed **pattern recognition** and **image classification models** that can predict future locations of Burmese Pythons with **96.3% accuracy.**
- Created a responsive frontend using **React JS, Tailwind CSS, Vite,** and **ChartJS** while using **GitHub** for collaboration.

CipherCrack: High-Speed DES/3DES Decryption and Frequency Analysis Toolkit *November 2023 - December 2023*

- Designed and implemented software in **C++** using **3DES encryption standards** to decrypt bitmap images.
- Achieved **sub-30 second decryption time** compared to over 10 minutes for second place in a class competition where we brute-forced 2500 potential decryption keys.
- Optimized performance by analyzing the first few decrypted bytes, aborting unnecessary computations, resulting in unprecedented speed.

EDUCATION

***Bachelor's in Computer Science*, California State University, Sacramento** *Expected Graduation: May 2026*

***Certificate in Computer Information Science - Programming in C/C++*, Cosumnes River College** *Received: May 2024*

LEADERSHIP & STUDENT ORGANIZATIONS

***President & Founder*, Data Structures and Algorithms Club** *August 2024 - Present*

- Lead weekly workshops for **60+ members**, focusing on improving technical interview skills and algorithmic problem-solving.

***Vice President, Marketing Lead, & Founder*, The Hive Collective** *February 2025 - Present*

- Creating **production-ready applications** that solve **real-world problems**.
- Currently working on "Tinder for Finding Roommates"

***Director of Strategic Partnerships*, Data Science Club** *August 2024 - Present*

- Facilitated partnership with **DSA & ACM** on an event in collaboration with a Google Engineer.
- Raised over $6,000 in funds for Data Fest in partnership with the American Statistical Association.

ORGANIZATION AFFILIATIONS: *August 2024 - Present*

- Society for Hispanic Professional Engineers (SHPE)
- Math Engineering Science Achievement (MESA)
- Association for Computing Machinery (ACM)

WORK EXPERIENCE

***Assistant Manager & Staff Leader*, Baskin Robbins,** Stockton, CA *February 2014 – Present*

- Reduced daily revenue loss by **over $1,000** through incentive programs that cut product waste.
- Managed over **$3,000 in 200+ daily transactions** at one of the most popular Baskin-Robbins in the country.