MELODY GATAN

Software Engineer | Full-Stack Developer

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EDUCATION

California State University Long Beach   **Expected Graduation: Dec 2025**

Bachelors of Science in Computer Science

Relevant coursework: **GPA (3.6)**

- Data Structures, Algorithms, Discrete Structures, Database Fundamentals, Object-Oriented Programming (Python), System Programming (C++), Operating Systems, Mobile App Development

Honors: Dean's List (Fall 2023, Spring 2024), President's List (Spring 2024)

Affiliations: WiC (Women in Computing), ACM (Association for Computing Machinery), SWE (Society of Women Engineers)

EXPERIENCE

Web Developer Intern | CSULB Esports Association   **Sept 2023 - Jul 2024**

- Designed and deployed scalable database optimization solution reducing query response time by 60% through PHP/MySQL indexing and caching strategies, maintaining 99.2% uptime for 500+ concurrent users in production environment
- Decreased manual registration processing time by 75% by engineering automated player tryouts system with PHP/MySQL, successfully processing 200+ signups per season with zero data loss

Secretary | Women in Computing (WiC) - CSULB   **Aug 2023 - Apr 2024**

- Increased member engagement by 35% and workshop attendance by 45% through automated newsletter delivery to 150+ members using MailChimp and coordinating 8 technical workshops

Target | Fulfillment Expert   **Aug 2021 - Present**

- Process 100+ daily orders with 98% accuracy, trained 3 team members, and troubleshoot inventory software for team of 8

PROJECTS & HACKATHONS

Cafinity | Senior Project | GitHub Repo   **Aug 2024 - May 2025**

- Designed, tested, and deployed location-based café discovery platform using Firebase distributed database architecture and Google Maps API, implementing scalable role-based access control system and managing 200+ listings with focus on system maintainability and performance optimization
- Implemented secure authentication and role-based access control using Firebase Auth with Google Sign-In, enabling protected routes and user management for owners, admins, and users.

Kitchen Display System | Modo Matcha | Modo Matcha Menu   **July 2025**

- Designed, developed, tested, and deployed real-time kitchen display system using TypeScript, Next.js, and distributed Firestore architecture, implementing large-scale order processing handling 145+ concurrent orders with sub-second latency and 100% system reliability during high-volume operations
- Implemented dynamic menu display and order archiving system with responsive web application for seamless high-volume catering and daily operations

Discord Music Recc Bot | MarinaHacks 3.0 Hackathon | GitHub Repo | DevPost   **Apr 2023**

- Built bot serving 500+ music recommendations to 300+ users across 5 Discord servers
- Integrated Spotify API to provide personalized song recommendations based on user preferences
- Won 2nd place in entertainment category at MarinaHacks 3.0 hackathon

TECHNICAL SKILLS

Programming Languages | Python, C++, Java, Kotlin, C#, JavaScript

Web Development | React, HTML/CSS, Next.js, Node.js, PHP

Database Management | MySQL, SQL, Firebase (Firestore), MongoDB, Convex

Tools & Technologies | Git, Visual Studio Code, Jira, AWS, CI/CD, Agile/Scrum, REST APIs, Command Line, Linux