

Maxwell Tan

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Github: <https://github.com/max-tan>

Willing to Relocate: Anywhere

Authorized to work in the US for any employer

Professional Summary

Motivated CS senior (B.S. expected May 2026, GPA 3.8) with hands-on experience developing full applications, including a Qt 2D graphics editor and PayPal-integrated Discord e-commerce bot. Proficient in Python, C++, PyTorch, RESTful APIs, and cloud platforms (AWS/Azure). Seeking entry-level software development or AI/ML roles to build innovative solutions.

Education

Bachelor of Science in Computer Science (Expected Graduation May 2026)

California State University, Fullerton – Fullerton, CA

August 2024 – Present

GPA 3.8/4.0

Associate of Science in Computer Science

Saddleback College – Mission Viejo, CA

August 2023 – May 2024

Undergraduate Studies in Computer Science

California State University, Sacramento – Sacramento, CA

August 2022 – May 2023

Relevant Coursework

Data Structures • Algorithm Engineering • Software Engineering • Operating Systems • Compilers and Programming Languages • Object-Oriented Programming • Computer Organization & Assembly Language • Computer Communications • Artificial Intelligence • Cybersecurity Foundations • Discrete Mathematics • Calculus I & II • Statistical Applications to Natural Sciences

Projects

2D Graphics Modeler — C++, Qt

- Engineered a feature-rich 2D graphics editor in C++ with Qt, supporting 8+ shape types via polymorphic inheritance and polymorphism for extensible design.

- Implemented custom file I/O parser for persistent storage and loading of complex scenes with 100+ objects.
- Added role-based authentication (admin/guest) and real-time interactive editing (drag, resize, rotate) to enhance user experience.

Discord Commerce Bot — Python, discord.py, SQLAlchemy, SQLite, PayPal API

- Built a fully automated e-commerce Discord bot in Python handling product sales, inventory, and secure transactions for digital goods."
- Designed and implemented SQLAlchemy ORM schema for products, orders, users, and payments, supporting concurrent operations."
- Integrated PayPal API for dynamic invoice generation, payment verification, and automated fulfillment, reducing manual processing by 100% in simulated/test environments.
- Enforced RBAC and private ticket channels to ensure secure, auditable order management.

Skills

- **Languages:** Python • C++ • Java • C# • JavaScript • SQL • HTML • CSS
- **Frameworks & Tools:** PyTorch • Unity • Qt • discord.py • SQLAlchemy • Git • RESTful APIs
- **Cloud & Platforms:** AWS • Azure • VMware
- **Methodologies:** Agile/Scrum • Unit Testing • OOP
- **Concepts:** Machine Learning • Data Structures & Algorithms • System Design
- **Soft & Professional Skills** • Customer Service • Communication • Time Management • Technical Support / Help Desk • Team Collaboration • Bilingual (English & Mandarin)

Professional Experience

Cashier / Stocker- Stater Brothers Markets – Lake Forest & Anaheim, CA August 2023 – Present • Process customer transactions efficiently while maintaining accuracy in high-volume environment. • Stock and organize merchandise to ensure store presentation and inventory accuracy. • Assist customers with inquiries, resolve issues, and provide excellent service to drive satisfaction. • Collaborate with team members to manage daily operations and meet performance goals.

Cashier / Customer Service- Safeway – El Dorado Hills, CA April 2022 – May 2023 • Delivered friendly customer service, addressing concerns and recommending products. • Managed multiple tasks including bagging, stocking, and light cleaning in fast-paced setting. • Developed strong time management and multitasking skills under pressure.