

Tiffany Yung

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EDUCATION

Purdue University May 2028 (Expected)
*B.S. in **Computer Science**, B.S. in **Mathematics**, Minor in **Mathematical Economics*** *West Lafayette, IN*

- Relevant Coursework: Data Structures and Algorithms, Analysis of Algorithms, Systems Programming, Linear Algebra, Statistical Methods, Computer Architecture, Discrete Mathematics, Multivariate Calculus

EXPERIENCE

Amazon Web Services June 2026 – August 2026
Software Development Engineer Intern *Seattle, WA*

- Returning Summer 2026

Amazon Web Services May 2025 – August 2025
Software Development Engineer Intern *Seattle, WA*

- Engineered Amazon's internal ticketing API handling **130M+ daily requests** to support priority and label-based filtering and sorting, improving issue management and triage for **1M+ employees**.
- Implemented end-to-end changes across API model, service logic, and datastore layers, maintaining consistency across CRUD operations and preserving **backward compatibility**.
- Designed unit and integration tests to validate request/response behavior, ensuring safe production rollout.

Purdue Stack Sept 2025 – Dec 2025
*Project Lead, **Celebrity Trending News Feed*** *West Lafayette, IN*

- Led 6-person team** to design and ship a real-time celebrity news feed for a Social Stock Exchange app.
- Implemented **article ingestion and LLM pipeline** using Axios, Cheerio, NewsAPI, and Gemini to scrape news sources, extract celebrity names, and classify trending topics with **85%+ accuracy**.
- Developed ranking algorithm to order articles based on trend velocity, recency, and entity mention frequency.
- Oversaw sprint planning and code reviews; coordinated backend, frontend, and data workflows across the stack.

CyberCats – FIRST Robotics Competition Team 2872 Sept 2021 – June 2024
Lead Programmer, Team Captain *Old Westbury, NY*

- Engineered robot localization and path-planning using AprilTag fiducial markers, odometry, and motion profiling to enable **autonomous navigation, auto-aiming, and real-time pose estimation** during matches.
- Spearheaded development of core robot subsystems including drivetrain, computer vision, and game-piece handling, applying PID and state-space control across autonomous and teleoperated operations.

PROJECTS

MarketPulse – Stock News Sentiment Analysis | *Python, Pandas, PyTorch, Hugging Face Transformers* 2026

- Implemented financial news sentiment analysis pipeline using FinBERT to score articles from Yahoo Finance, MarketWatch, and NewsAPI and detect short-term shifts in stock market sentiment.
- Generated hourly buy/sell/hold signals from sentiment deltas and visualized trends in a Streamlit dashboard.

Functionary – Codebase Visualization Tool | *React, Express/Node.js, MongoDB, Pinecone, OpenAI* 2025

- Developed interactive tool for developers to visualize complex codebases, streamlining onboarding processes.
- Implemented Abstract Syntax Tree parsing to map function calls and dependencies for clear visualization.
- Designed RAG pipeline using Pinecone to enable semantic search across codebase and context-aware LLM queries.

EcoSentry – Edge AI Wildlife Detection | *TensorFlow, Firebase, React Native, Twilio, Raspberry Pi* 2023

- Built Raspberry Pi-based IoT system that streams camera data to a self-trained TensorFlow CNN for real-time wildlife detection, achieving 70%+ accuracy and triggering automated alerts for high-risk sightings.
- Developed React Native app with Firebase storage and Twilio SMS integration to deliver mobile notifications.

SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, Go, SQL, R, HTML/CSS

Frameworks & Tools: AWS (Lambda, EC2, CloudWatch), Express/Node.js, PostgreSQL, MongoDB, NumPy, pandas, PyTorch, TensorFlow, Pinecone, Docker, Git, Linux, React, OpenCV, Matplotlib, BeautifulSoup