

Jeffrey Slobodkin

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EDUCATION

Texas A&M University *College Station, TX*
Bachelor of Science in **Computer Science** with Minor in **Mathematics**; GPA: 3.87 Aug. 2022 – Dec. 2025
Relevant Coursework: Data Structures & Algorithms, Software Engineering, Competitive Programming,
Computer Systems, Machine Learning, Networks and Distributed Programming
Clubs/Organizations: Texas A&M Blockchain Club

EXPERIENCE

- **JPMorgan Chase & Co** June 2024 – August 2024
Software Engineering Intern *Plano, TX*
 - Implemented automated contract and unit testing framework using JUnit5, Pact, and PactFlow, reducing integration issues with AWS SQS messaging systems by 70%.
 - Developed real-time message processing system micro-service using Java Spring Boot and Jakarta JMS, handling hundreds of messages per second
 - Enhanced Ring 3 infrastructure by working on both monolith and micro-service architectures, which improved system scalability and performance
- **Sierra Nevada Corporation** May 2023 - Aug 2023
Software Engineering Intern *Plano, TX*
 - Implemented C++ program between flight simulator and RPA systems, creating a data transformation pipeline and struct-based memory management, which improved the accuracy of flight telemetry data transmission
 - Developed Python automation software to interface with aircraft tuner modules through Brainbox ED004 hardware, enabling programmatic control of aeronautical data input/output, which eliminated manual GUI interactions and increased efficiency
 - Implemented C++ program between flight simulator and RPA systems, creating a data transformation pipeline and struct-based memory management, which improved the accuracy of flight telemetry data transmission

PROJECTS

- **Revello** July 2024 – Current
React Native, Expo, Next.js, Node.js, Express, PostgreSQL, Heroku, Mapbox
 - Built React Native mobile app with interactive map to display local restaurant deals and promotions
 - Developed Next.js dashboard for restaurant owners to manage promotional deals through CRUD operations
 - Created RESTful API with Node.js/Express and PostgreSQL for deal management and location queries
- **Reliable UDP File Transfer Protocol** November 2023
C++, WinSock, Windows API, Multi-threading
 - Implemented UDP file transfer protocol with sliding window control, thread synchronization, and RTT estimation
 - Built producer-consumer system using Windows events and semaphores for packet management and fast retransmit
 - Developed performance monitoring system tracking throughput, RTT, and packet loss for large file transfers
- **Parallel Traceroute Implementation** December 2023
C++, Windows Socket Programming, ICMP, Multi-threading
 - Built Windows traceroute utility using ICMP sockets and event-driven architecture to measure network paths
 - Implemented parallel DNS resolution with dynamic timeout adjustment using Windows thread synchronization
 - Developed batch processing to analyze multiple network paths and generate hop count statistics

TECHNICAL SKILLS

Languages & Frameworks: C++, Java, Python, JavaScript, React Native, Next.js, Spring Boot, SQL
Developer Tools: Git, AWS, Heroku, Windows API, Hetzner, Linux, Ubuntu, Docker, Azure
Technologies: PostgreSQL, MongoDB, Sockets, Node.js, Express, WinSock, ICMP, Multi-threading, Expo