

# Andrew Luo

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## EDUCATION

**University of North Carolina at Chapel Hill - Chapel Hill, NC**  
*Bachelor of Science in Computer Science, Bachelor of Science in Statistics*

**August 2023 - May 2027**  
*3.834 GPA*

## TECHNICAL SKILLS

- **Programming & Scripting:** Java, Python, TypeScript, JavaScript, HTML, CSS, Bash, C.
- **Frameworks & Libraries:** React, Next.js, Tailwind CSS, JavaFX, Flask, pandas, scikit-learn, OpenCV, MediaPipe, TensorFlow, Android.
- **Tools & Platforms:** Docker, Git, Linux, Node.js, npm, Yarn, AWS, SailPoint IdentityIQ, Identity Security Cloud (ISC), Entra PIM, Tricentis qTest.
- **Databases & AI/ML:** Vector Databases, SQL, Retrieval-Augmented Generation, Machine Learning Pipelines, Data Preprocessing, Model Training & Evaluation, SMOTE, Random Forest, Predictive Analytics, Gradient Boost.
- **Concepts & Methodologies:** Algorithm design patterns, MVC architecture, full-stack development, event-driven programming, asynchronous processing, version control workflows, API integration, Linux, Identity and Access Management (IAM), User Acceptance Testing (UAT).

## WORK EXPERIENCE

### Global Supply Chain Intern (SmartOps) | Lenovo | June 2026 - January 2027

- Developed machine learning classification models using Python, pandas, and scikit-learn, achieving 88% accuracy to drive supply chain predictive analytics.
- Independently engineered a full-stack internal web application (TypeScript, Next.js, Python, SQL) as a solo project, managing the entire development lifecycle from architecture to deployment.
- Designed a regression scorecard system tracking key performance metrics, supporting data-driven decisions for a 10-day shipping supply chain pipeline.

### Identity and Access Management Intern | First Horizon Bank | February 2026 - May 2026

- Supported Project Apollo, facilitating the enterprise platform migration from SailPoint IdentityIQ to Identity Security Cloud (ISC).
- Executed User Acceptance Testing for provisioning processes, including Entra PIM integrations.
- Utilized Tricentis qTest to organize test scripts, track system defect logs, and collaborate with QA engineers to identify and resolve bugs before deployment.

## RELATED PROJECTS

### Retrieval-Augmented Generation Chatbot (Python): April 2025

- Built an AI chatbot using Retrieval-Augmented Generation (RAG) in Python for accurate, context-aware responses
- Integrated document retrieval and language generation to enhance user interaction and relevance
- Applied NLP techniques and vector databases to enable real-time information extraction from custom data sources

### Spotify-Tinder (React): June 2025 - July 2025

- Built a full-stack Next.js app integrating the Spotify Web API to allow users to swipe through song previews and add to liked songs when swiping right with a Tinder-style swiping interface, with 25 monthly users.
- Implemented OAuth 2.0 authentication flow with Spotify, dynamically fetching recommended tracks, and managing playlist modifications based on user interactions.
- Implemented genre generation from Spotify genre Seeds.

### Real-time Focus & Mood Detector (Python): August 2025

- Built a webcam pipeline that collects 500+ facial/pose landmarks (33 pose + 468 face mesh) with MediaPipe, logs them to CSV, and trains multiple classifiers (Logistic Regression, Ridge, Random Forest, Gradient Boosting) with a standardized scikit-learn pipeline.
- Achieved real-time inference with on-screen labels & probabilities; triggers platform notifications and non-blocking audio cues.
- Implemented an asynchronous WAV player and a configurable event system to map predicted labels to custom actions.

## RELEVANT COURSEWORK

Algorithms, Data Structures, Systems Sequence, Code Structuring, Mobile Computing Systems, Models of Languages and Computation, Video Encoding, Game Theory, Optimization.