Ryan Tran

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EDUCATION

Kennesaw State University — Marietta, GA
Bachelor of Science in Computer Science — *Expected Graduation May 2026*
Clubs: KSU AI Club, KSU Electric Vehicle Team, KSU Vietnamese Student Association — GPA: 3.79 / 4.0

EXPERIENCE

Software Engineering Co-op — May 2025 – Present
INPO (Institute of Nuclear Power Operations) — *Atlanta, GA*
- Developed and tested full-stack web applications with **C#, .NET, Angular, TypeScript,** & **T-SQL/SQL Server** across **3** projects.
- Implemented **dependency injection** into **REST API** back-end infrastructure.
- Facilitated QA Automation, Regression Testing, & Manual Testing utilizing **Ranorex**, **Postman**, & **Swagger** for **3+** external applications in **Azure DevOps**.

Software Tech Fellow — Jan. 2025 – May 2025
CodePath — *San Francisco, CA*
- Mentored **50+ students** in **HTML/CSS & Javascript**, improving assignment completion by **25%**.
- Provided hands-on guidance and debugging support for **8+ projects**.
- Boosted student satisfaction to **90%+** by clearly explaining concepts and offering consistent office hours.

Software Engineering Intern — Sep. 2024 – Dec. 2024
Aayats — *Atlanta, GA*
- Pioneered a **data AI model** for predicting musical attributes (genre, mood, instrumentation) from MP3 files using open-source library **Librosa**.
- Designed a pipeline extracting **15+ audio features** (e.g., tempo, MFCCs), enabling datasets for Machine Learning tasks.
- Streamlined model customization with **Hugging Face Transformers** and **Unsloth** for faster fine-tuning.

Software Engineering Fellow — Jul. 2024 – Sept. 2024
Headstarter AI — *Long Island City, NY*
- Built and deployed **5 AI web apps** using **React, Next.js, Firebase, OpenAI API, Clerk API,** and **Vercel**.
- Led **4 software engineers** and scaled each app to **200+ users** with user feedback.
- Mentored by **Amazon, Bloomberg, and Capital One engineers** on **Agile, CI/CD, Git, and microservices**.

Artificial Intelligence Undergraduate Researcher — Jul. 2024 – Dec. 2024
Kennesaw State University — *Marietta, GA*
- Built an **NLP pipeline** using **7 techniques** (e.g., sentiment analysis, NER) to detect emotional patterns in **1,000+** mental health app reviews.
- Automated review collection from **iOS App Store** with a **Python web scraper**, reducing manual labor by **90%**.

PROJECTS

AI Mental Health SaaS | *Next.js, JavaScript, OpenAI, Clerk, Stripe, Firebase*
- Launched an **AI mental health platform** with **Next.js, Firebase,** and **OpenAI** for generating AI-personalized wellness solutions.
- Integrated **Stripe** and **Clerk** for secure payments and authentication, onboarded **100+** users & **10+** paid users.

Custom CNNs for Body Building Pose Detection | *Python, Conda, TensorFlow, Keras, Matplotlib*
- Built a **custom convolutional neural network** model to detect **5 specific body building poses**
- Fine-tuned hyper parameters and added layers to boost custom CNN model accuracy from 30% to 65%+.

SKILLS

Languages: Python, Java, C#, JavaScript, TypeScript, Swift, R, T-SQL/SQL, HTML/CSS
Frameworks: React, Next.js, Angular, Node.js, .NET, scikit-learn, pandas, NumPy, Librosa, RandomForest
Developer Tools: Git, Azure DevOps, Ranorex, Docker, GCP, Supabase/Firebase, VS/VS Code, XCode, IntelliJ