Illy Hoang

East Hartford, CT | Illy.Hoang@uconn.edu | (860) 899-8121 | [Portfolio](#) | [LinkedIn](#) | [GitHub](#)

Programming	Python, C, C++, Java, JavaScript, PHP, TypeScript, HTML/CSS, Bash, SQL, NoSQL, MATLAB, Ruby
Frameworks	TensorFlow, Scikit-Learn, Flask, NumPy, pandas, Matplotlib, Keras, PyTorch, React Native, WordPress
Technologies	Git, Jira, Docker, Jenkins, AWS, MySQL, MongoDB, Xcode, Android Studio, Node, LaTeX, Tableau

EDUCATION

University of Connecticut — Expected May 2025
B.S. Computer Science, Concentration in Computational Data Analytics, Minor in Mathematics

RELEVANT EXPERIENCE

Software Engineer Intern - App Development — Aug 2024 – Present
Savant Systems — Remote
- Resolved numerous high-priority bugs to enhance the UI of Savant's Power & Lighting app
- Refactored existing code base using React Native, Typescript and functional paradigms to optimize app logic
- Collaborated with cloud team on feature for remote access to hardware activity stored via Savant Cloud Servers

Undergraduate Teaching Assistant — Aug 2023 – Present
UConn School of Computing — Storrs, CT
- Assisted instructors for Discrete Systems, Systems Programming, Introduction to ML, and AI
- Facilitated lab sections and office hours to provide academic support to sections of varying class sizes
- Managed correspondences between Professor, TAs and students using various software tools and platforms

InStep Intern – Business Analysis/Consultation — May 2024 – Jul 2024
Infosys Limited — Hartford, CT
- Presented the wireframe for an AI-driven smart health delivery app developed in an agile scrum environment
- Assessed GPT response quality using Infosys' Responsible AI Toolkit for ongoing research in prompt exploitation
- Coordinated with other interns within the team to meet sprint deadlines and efficiently resolve tasks
- Certified in Cloud services and security principles, ethical AI fundamentals/governance, and prompt engineering

Web Developer — Oct 2023 - May 2024
UConn University Communications — Storrs, CT
- Automated plugin management with Jenkins CI/CD and WP-CLI, optimizing and reducing manual tasks
- Maintained and enhanced UI of UConn's official websites by updating backend using WordPress and PHP
- Troubleshot technical issues reported by other departments, ensuring reliable servers across university operations

Database Management Intern — Jun 2023 - Aug 2023
Easy Event Planning LLC — Remote
- Extracted SEO metrics for over 50,000 keywords using extraction pipeline with Ahrefs API and Google Ads API
- Optimized feature selection process with automated data cleaning scripts for standardizing and validating CSVs

RECENT PROJECTS

Transformer for Longitudinal Autism Behavior Analysis | [GitHub repo](#) — Present
- Developed feature preprocessing pipeline with age-normalization and binary encoding for AQ10 data
- Implemented dual-task model achieving 91% precision diagnosis prediction, 69% accuracy trait classification
- Analyzed age-related patterns in behavioral traits to identify key diagnostic markers across developmental stages

Intelligent Fashion Classifier | [Paper](#) — Present
- Transferred learning from Mask R-CNN ResNet50 model onto NASNet model for live fashion recognition task
- Built a hybrid fashion recommender using LightFM (collab-filtering) and CLIP embeddings (visual similarity)

Predicting Masked Player Motion with BERT | [Competition Notebook](#) | [GitHub repo](#) — 2025
- Designed parallelized feature extraction with multiprocessing to accelerate dataset initialization
- Implemented multi-task architecture with separate decoders for position classification and coordinate regression
- Achieved ~70% accuracy, F1 and precision for classification as well as 3 yard MAE for regression