

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

B.S. in Computer Science, Concentration in Computational Data Analytics

Expected May 2025

GPA: 3.40

RELEVANT EXPERIENCE

Software Engineer Intern

Aug 2024 – Present

Savant Systems

Remote

- Resolved numerous high-priority bugs to enhance the UI of Savant's Power & Lighting app during ongoing releases
- 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

Student Instructor Assistant

Aug 2023 – Present

UConn School of Computing

Storrs, CT

- Assisted in courses for Discrete Systems, Systems Programming, Introduction to Machine Learning, and AI
- Facilitated lab sections and office hours to provided academic support to sections consisting of up to 60 students
- 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-4 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, AI governance, and prompt engineering

Student Web Developer

Oct 2023 - May 2024

UConn University Communications

Storrs, CT

- Automated plugin management with Jenkins CI/CD and WP-CLI, optimizing deployment and reducing manual tasks
- Maintained and enhanced UI of UConn's official websites, implementing backend updates using WordPress and PHP
- Troubleshoot 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 with data extraction pipeline using Ahrefs API and Google Ads API
- Optimized feature selection process through automated data cleaning scripts for standardizing and validating CSVs

RECENT PROJECTS

FashionForward – Intelligent Fashion Classifier | [GitHub group](#) | [Paper](#)

Present

- Collaborated with undergrad team to implement a fashion classifier for clothing recognition and outfit suggestions, built on a Hugging Face R-CNN model and trained with numerous datasets processed through custom pipeline
- Automating model tuning with Optuna and creating custom benchmarks for evaluating live object detection

GhostFormer – 2025 NFL Big Data Bowl Submission | [Competition Notebook](#) | [GitHub repo](#)

2025

- Engineered a Transformer-based LM to predict on spatial and categorical features simultaneously
- Achieved roughly 70% accuracy across evaluation metrics in positional predictions and a MAE of 3 yards for player motion by training on augmented pre-snap tracking data using deep learning techniques and ML algorithms

Evaluating Various Attention in Neural Machine Translation | [GitHub repo](#) | [Paper](#)

2024

- Conducted a research study, under Dr. Suining He, investigating the impact of various attention mechanisms on text output quality for Neural Machine Translation, implemented on a Seq2Seq bidirectional LSTMs pipeline
- Discovered an approximate 0.08% improvement in precision for models implemented with attention