**Tony Leng**

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**EDUCATION:**

**University of Illinois at Urbana-Champaign** *GPA: 3.88/4.00*

*Bachelor of Science in Computer Science & Statistics* *Expected: May 2026*

* Skills: C++, C, Python, Java, JavaScript, R, HTML/CSS.

**EXPERIENCE:**

**Project: CODE** – *Programming Lead January 2023 – April 2023*

* Created a text summarizer model with a team to condense large volumes of complex documents.
* Preprocessed, vectorized, and embedded a dataset of Amazon reviews using NLTK.
* Built a Seq2Seq model using LSTM layers and an attention mechanism from TensorFlow.
* Trained the model with encoders and a decoder and an 80:20 dataset split using scikit-learn.
* As team lead, managed learning sessions, assigned roles to members, and monitored team progress.

**PROJECTS:**

**Workout Planner** – *JavaScript, HTML, CSS*

* Designed a workout planner website to replace the Notes app and pen/paper in the gym.
* Used MongoDB for database management, utilizing Mongoose for schema definitions (exercise, reps, load) and data validation.
* Implemented Express and Node.js for server-side logic and CRUD functionalities on the backend.
* Developed the user interface using React to add, update, and delete workouts.

**Hockey Player Database** – *R*

* Developed a database website to effectively query and visualize NHL player data.
* Utilized R Studio, ggplot2, and Tidyverse to visualize trends through performance graphs and query data from an NHL player dataset.
* Designed an “efficiency” metric to quantify offensive contributions by correlating scoring and ice time.
* Created the user interface using R shiny for reactive panels to adjust content and visuals.

**Food Truck Map** – *Java*

* Collaborated with a team to develop a self-updating map for food trucks on campus because of their hourly relocations not being covered by mainstream mapping services.
* Collected and compiled truck schedules and online reviews into a formatted CSV file.
* Developed the user interface using JSON deserialization and streamlined parsing to convert data into real-time updating map markers with descriptions of restaurant reviews.
* Leveraged Android Studio to conduct emulator testing and present the prototype to my fraternity.

**EXTRACURRICULARS:**

**Psi Eta Mu (Professional Information Science Fraternity)** – *Fundraiser* *February 2024 – Present*

* Selected from 150+ applicants through multiple interviews and a social rush process.
* Elected among members as fundraising chair to collaborate with various organizations and businesses on campus to organize fundraisers.