Yixin (Amanda) Yin

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EDUCATION

University of Toronto   Sep 2022 - 2026
HBSc - Co-op Specialist in Computer Science - Software Engineering, Major in Statistics   *sGPA: 4.0*

Courses: Intro to Comp Sci I and II, Software Design, System Programming, ML and Data Mining, Numerical Analysis, Calculus I and II, Linear Algebra I and II, Probability I and II, Stochastic Process.
Awards: E-Fund Entrance Scholarship of Excellence - 10,000 CAD, 2023 Dean's list, AnitaB GHC scholarship
TAships (Teacher Assistant): W24 CSCA67(Discrete Mathematics), MATA37(Calc 2).

SKILLS

Languages: C/C++, Java, Python, JavaScript/TypeScript, HTML/CSS, R, SQL, GraphQL.
Tools/Frameworks: Git, Linux, MySQL, MongoDB, Power BI, AWS, React, Scikit-learn, PyTorch, MATLAB, Solr.
Skills: Client-Server Protocol and API Design, Data Modeling, Product Management, Microservices, Kubernetes.

INTERNSHIPS

StackAdapt SWE Intern | *Planning Forecast Team. Toronto, ON*   Jan-Apr 2025
- Building Geo Radius Forecasting tools using React, Ruby on Rails, TypeScript, and GraphQL.

Microsoft SWE and PM Intern | *Outlook Group, Enterprise Adoption Team. Redmond, WA*   May-Aug 2024
- Developed a detailed specification for the Outlook app bar **MRU**(Most Recently Used) apps and intelligent pinning features, including engineering details, user signal definition, and telemetry metrics; reviewed by a team of PMs.
- Implemented the spec by capturing user signals and writing **MRU sorting algorithms** to fetch, update, and query MRU acquisitions. While considering and testing all user edge-cases.
- Optimized the pinning feature by analyzing user behavior to determine the frequency of MRU prompts for pin tips. Checked in my PRs to **Prod** with up to **500** lines of code, to be released once the feature flight is completed.

Scotiabank SWE and ML Research Intern | *Corporate Functions, AI/ML Analytics Team. Toronto*   Jan-Apr 2024
- Built a full-stack pipeline to generate unique queryIDs, linking **user signals** such as clicks and views under single user events, and piped the data into MongoDB for storage and analytics purposes.
- Generated a **judgment list** of relevance labels using the **Simplified Dynamic Bayesian Network** click model. Performed **feature engineering** by adding new features to the feature store and logging attribute values in Solr.
- Implemented **LTR (Learn to Rank)** techniques, specifically the **pairwise SVM** method, to boost signals and automate weight generation for features, **re-ranking** search results to enhance search relevance for clients of varied identities, habits and needs.

PROJECTS

HackMIT 2024: Axy | *JavaScript, React, Convex (backend), Terra API, Apple Health, ESP-A26 sensor*   @Axy
- Developed an app to detect stress level from wearables, giving personalized insights, tips, and predictions by analyzing daily activity patterns to identify triggers and predict future stress based on time and location.
- Utilized React Native and Convex for real-time data management, integrating Apple Health and Terra API to collect and analyze data with ML techniques for AI journaling and future predictions.

Hack the North 2023: Greg the Goose (AI Taboo Game) | *Java, TypeScript, React, API, GCP, NLP*   @Devpost
- Created an interactive AI companion using Cohere's text generation LLM and Google Cloud's speech-to-text.
- Valued real-time transferred user data for NLP model training, emphasizing non-keyword embedded descriptive sentence structures, and their potential benefit for those with verbal expression challenges.

EXPERIENCE

Project Lead - Debiasing NLP (Natural Language Processing) | *UofT Trustworthy Machine Intelligence (TMI)*
- Leading efforts to reduce bias in gender-related NLP word embeddings, with soft and hard debiasing methods.