looking for summer intern 06/10/2023 - 09/22/2023

Mobile: (408)806-4969 Email: xwen20@ucsc.edu

Address: 707 Pelton Ave Apt 203, CA, 96050

Skills

Programming languages: C/C++, Python, SQL, Java, PHP, JavaScript

Tools: Git, TensorFlow, PyTorch, VS Code, Docker, LATEX Operating systems: Linux(Ubuntu), MacOS, Windows

EDUCATION

University of California, Santa Cruz

M.Sc. in Computer Science and Engineering Hong Kong Polytechnic University B.Sc. in Computing; Major GPA: 3.61/4.00

University of Maryland, College Park

Exchange Program; Major GPA: 3.85/4.00

Santa Cruz, CA

Sep 2022 – Fall 2023 (M.Sc.)

Hong Kong

Sep 2016 – June 2020 (B.Sc.)

College Park, MD

Jan 2019 – May 2019

Work/Research Experiences

Tencent Holdings Ltd.

Algorithm Engineer(T7), on video recommendation

for WeChat Channels (using C++ and Python):

Beijing, China

Aug 2020 - July 2022

- Added music as a source of recalling music: Trained a CNN model to predict user favourite background music based on user favourite songs and recalled good videos with those background music. Increased total play time by 7% and Day 1 retention by 0.3%.
- Identified, implemented and incorporated features for the ranking models: Introduced user historical portraits and video tags provided by external teams, defined new features like user long-term interest tags, and incorporated them into the ranking model with appropriate crossover. Increased total play time by 4% and video views by 2%.
- Implemented a thorough monitoring alarm and hourly report system for features and labels in data flow: Customized checking methods for each feature or label by defining error codes, code refactoring and running statistics from the ClickHouse table. Caught 4 bugs brought by upstream changes.

UMIACS, University of Maryland, College Park

Research Assistant, advised by Dr. Jordan Boyd-Graber on NLP

College Park, MD

June 2019 - Aug 2019

• Built a neural network retention model in Python to estimate the users' memory strength: Fine-tuned the BERT model to learn the text representation and encode the flashcard questions and added other users' features like user historical correct rate. Increased the accuracy of predicting the probability of the user recalling the flashcard answer by 7% than the logistic regression baseline.

Hong Kong Polytechnic University

Hong Kong

Research Assistant, advised by Dr. Yixin Cao on graph theory, computational complexity Feb 2018 - June 2018

• Worked on the Steiner tree problem (STP) on graphs: Submitted a heuristic algorithm in C to PACE 2018 solving 90% instances each within 2 seconds with an approximation ratio less than 10.

MIT CSAIL Cambridge, MA

Visiting Student, advised by Prof. Hal Abelson on block programming implementation

Jul 2017 - Aug 2017

• Indoor positioning blocks: Built IoT indoor positioning blocks by using Bluetooth Low Energy in Java for MIT App Inventor.

Publications and Papers

1. Wen Xi and Evan W Patton.

Blocks-Based Approaches to Internet of Things in MIT App Inventor. SPLASH 2018 BLOCKS+ Workshop, Nov. 5, 2018, Boston, MA. [Paper].

SELECTED HONORS AND AWARDS

The Hong Kong Polytechnic University Scholarship (2017)

HKSAR Government Scholarship Fund – Reaching out Award (2017)

Student of the Year with Best Academic Performance (2016)