Jun Hu

github.com/jjunhu/ ☊
jjunhu.github.io/

jonathanjun.hu@gmail.com
1 (607) 339-1279
linkedin.com/in/jjun-hu/

WORK EXPERIENCE

Amazon.com — Vancouver, Canada
Software Development Engineer Intern — *July 2024 - Present*
- Developing automated workflow solutions on the Payment Bridge team to optimize transaction processing.

Cornell University — Ithaca, New York
Graduate Student Researcher ☊ ☊ — *Sep 2023 - July 2024*
- Built an automated pipeline using retrieval followed by entailment models for claim verification in extensive long documents.
- Demonstrated new end-to-end approach to training retriever models using summarization models, outperforming current state-of-the-art pre-trained retrievers across multiple benchmarks.
- Fine-tuned bi-encoder language model for restaurant recommendation app using **PyTorch**, securing over 100 installations.
- Developed **Flask** and **Node.js** backend services, integrated **MongoDB**, and built chatbot interface with **GPT-4**.

Amazon Web Services — Vancouver, Canada
Software Development Engineer Intern — *May 2023 - Aug 2023*
- Implemented scalable interface for creating customized metrics that consolidate traffic of 10 Million global transactions.
- Streamlined infrastructure deployment by integrating **AWS** CDK, saving $260,000 annually in salary expenses.
- Exceeded internship objectives by redesigning **Typescript** documentation, reducing ticket resolution time by 50%.

University of British Columbia — Vancouver, Canada
Lead Teaching Assistant — *Dec 2020 - May 2023*
- Designed and implemented **Jupyter Notebook** problem set for training transformer model end-to-end to generate humorous captions, earning one of ten Undergraduate Teaching Assistant Awards for exceptional contribution.

Youpin Cosmetics Co., Ltd. — Vancouver, Canada
Software Development Engineer Intern — *May 2022 - Aug 2022*
- Centralized inventory management by building app in **Java** and **MySQL**, saving 10,000 labor hours across all departments.

EDUCATION

Cornell University — **GPA: 4.0**
Master of Engineering in Computer Science, Specialization in Large Language Models and AI — *Aug 2023 - Aug 2024*

University of British Columbia
Bachelor of Commerce, Combined Major in Computer Science and Business — *Sep 2020 - May 2023*
- 1st in the program, 5th in faculty (**Top 0.5%** of 908 students), first ever to complete the dual-degree two years early.

TECHNICAL PROJECTS AND RESEARCH PAPERS

- **CarSim**, Randomized multi-model approach to autonomous driving ☊ 🎓 — *Jan 2024 - May 2024*
  - Trained CNN behavior cloning model and applied DQN and PPO algorithms to win first place out of 48 project submissions.
- **BiteWise**, Smart assistant for restaurant owners ☊ — *Oct 2023 - Jan 2024*
  - Built retriever model to extract relevant reviews from Yelp and integrated with **GPT-4** API to generate actionable insights.
- **Turt-Navigation**, Human-guided route learning for robotic followers 🎓 — *Sep 2023 - Dec 2023*
- **CVR**, York University vision science summer research program | Site — *Jul 2023*
- **Job Central**, Full-stack university job application portal ☊ — *Feb 2022 - Jun 2022*
  - Designed and launched full-stack job search application with RESTful APIs using **Spark**, **PostgreSQL**, and **React**.

LEADERSHIP EXPERIENCE

Cars and Hoops Foundation | Site — Vancouver, Canada
*Vice President of Operations, Raised **over $300,000** for Canuck Place Children's Hospice* — *Nov 2021 - Present*

Varsity Basketball | Site — Richmond, Canada
BC Regional MVP 2020, Richmond City League All-Star 2020 — *Sep 2015 - May 2021*

TECHNICAL SKILLS

- **Languages**: Python, C, Golang, C++, Java, R, SQL, Typescript, Javascript, HTML, CSS
- **Technologies**: TensorFlow, PyTorch, Keras, Numpy, Matplotlib, Flask, OpenCV, Pandas, Spark, Docker, AWS, Git, Node.js
- **Coursework**: Large-Scale ML, Robot Learning, HCI, NLP, CV, Deep Learning, Distributed Systems, Parallel Computing