



Jun (Jonathan) Hu

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EDUCATION

- Cornell University** **GPA: 4.0**
 - Master's in Computer Science, Specialization in Large Language Models and AI* *Aug 2023 - Jan 2025*
 - Coursework:** Large-Scale ML, Robot Learning, HCI, NLP, CV, Deep Learning, Distributed Systems, Parallel Computing.
- University of British Columbia** **GPA: 4.33**
 - Bachelor of Commerce, Combined Major in Computer Science and Business* *Sep 2020 - May 2023*
 - Academic Ranking:** 1st among all program peers, 5th in faculty (**Top 0.5% of 908 students**).
 - Distinction:** Accelerated a rigorous four-year program, completing all requirements in three years—a program's first.



WORK EXPERIENCE

- Amazon Web Services** Vancouver, Canada
 - Software Development Engineer Intern* *May 2023 - Aug 2023*
 - Implemented a scalable interface for generating and publishing customized **workflow and alarm metrics** to AWS CloudWatch, resulting in its adoption by **20+ internal teams** and a **10x increase** in number of metrics available.
 - Spearheaded the engineering and deployment of a TypeScript package for **streamlining infrastructure deployment** via AWS Cloud Development Kit (CDK), seamlessly integrating with Amazon EC2 to dynamically optimize compute resources.
 - Exceeded internship objectives** by addressing critical issues in on-call operations. Extended the project scope to include a comprehensive redesign of documentation infrastructure, significantly cutting down average **ticket resolution time**.
- Cornell University**  Ithaca, New York
 - Research Assistant, Machine Learning Engineering* *Sep 2023 - Jan 2024*
 - Trained and fine-tuned a **multi-modal language model** for a restaurant **recommendation engine** using **PyTorch**.
 - Developed **Flask** and **Node.js** backend services, integrated **MongoDB**, and built a chatbot interface with **GPT-4** and **LangChain**. Conducted A/B testing and successfully launched Android application, achieving over 100 installations.
- University of British Columbia** Vancouver, Canada
 - Lead Teaching Assistant* *Dec 2020 - May 2023*
 - Collaborated with faculty to deliver Computer Systems, Algorithms, and Software Testing courses to **2,800+** students.
 - Spearheaded training initiatives** for 80 teaching assistants, elevating the department's instructional quality.
- Shenzhen Youpin Cosmetics Tools Co., Ltd.** Remote
 - Software Development Engineer* *Jan 2022 - Jul 2022*
 - Secured and executed a **\$12,000** contract to develop and deploy an inventory management app using Java and MySQL.
 - Centralized inventory management across departments, saving **1000 labor hours** yearly and decreasing errors by 10%.

RESEARCH AND PROJECT EXPERIENCE

- DeepReads: Enhancing Retrieval and Summarization in Large-Scale Literature Data** *Jan 2024 - Present*
 - Actively investigating and enhancing the state-of-the-art **retrieval models** under Professor Tanya Goyal's guidance.
 - Mining and extracting data from articles and literary websites to construct extensive, high-quality datasets.
- Subgoal Estimation for Enhanced Decision Making in Human-Robot Interactions**  *Sep 2023 - Dec 2023*
 - Developed a subgoal estimation algorithm for human-guided robotic followers using **TurtleBot**, **ROS** and **Python**, significantly enhancing path-following accuracy and collision avoidance in dynamic environments.
 - Conducted a comprehensive evaluation study, demonstrating the superiority of the **subgoal estimation** approach over traditional velocity-based prediction methods in terms of **adaptability** and **user satisfaction**.
- Job Central: Full-Stack University Job Application Portal**  *Feb 2022 - Apr 2022*
 - Designed and launched a robust full-stack job search portal, utilizing **Spark** for backend operations, **PostgreSQL** for scalable data storage, and **React** for an interactive user interface, enhancing user engagement and experience.
 - Engineered dynamic **RESTful APIs** to facilitate efficient CRUD operations and complex search functionalities.

LEADERSHIP EXPERIENCE

- Cars and Hoops Foundation**  Vancouver, Canada
 - Vice President of Operations* *Nov 2021 - Present*
 - Orchestrated fundraising campaigns that raised **over \$360,000** for Canuck Place Children's Hospice.
- Varsity Basketball**  Richmond, Canada
 - BC Regional MVP 2020, Richmond City League All-Star 2020* *Sep 2015 - May 2021*

SKILLS SUMMARY

- 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