Bhavya Kasera

+1 (203) 410-1640 | bhavya.kasera@yale.edu | https://bhavya-kasera.github.io/ | http://www.linkedin.com/in/bhavya-kasera

EDUCATION

Yale University, Graduate School of Arts & Sciences | AUG 2023 - PRESENT
MS, Computer Science
- Anticipated graduation date: May 2025

University of Toronto, Faculty of Arts & Sciences | JUN 2023
HBSc, Computer Science with a Focus in Artificial Intelligence
- **CGPA : 4.0** (scale: 4.0)
- **Awards and Honors**
  - University of Toronto Excellence Award [value $7500] (2021) & (2022)
  - Robert Bruce In-Course Scholarship [value $1750] (2020-21)

WORK EXPERIENCE

Qualcomm — Software Engineer Intern (San Diego, CA)
MAY 2024 - AUG 2024
- Leveraged **generative AI** to build an interactive image editing assistant **Android app**. Worked with teams across organization to **test**, **plan**, and **develop** the application. **Led demos** to VP, SVP, and teams across the company.

Yale University — Graduate Teaching Fellow (New Haven, CT)
AUG 2023 - PRESENT
- TF for intro to **AI** - tutored students, provided support to students for assignments/tests, and graded papers. Requires good communication skills, clear concepts, and a solid foundation in AI.

Momentive.ai (formerly SurveyMonkey) — Software Developer Intern (Toronto, Canada)
MAY 2022 - AUG 2022
- Worked on front-end content management system to unify user data, allowing for a common login across all company applications.

RBC (Royal Bank of Canada) — Software Developer Co-op (Toronto, Canada)
MAY 2021 - APR 2022
- Worked with **DevOps Centre of Excellence** to **expand**, **maintain**, and **support** an internal onboarding platform. Pioneered **RESTful API** development for new features, and worked with teams to build efficient, robust applications.
- Recognised as top talent among interns, was part of a **roundtable** with the **VP** of **Tech&Ops** at RBC. Also led a student resource group meant to provide support to student interns.

RESEARCH EXPERIENCE

SickKids Hospital/Vector Institute — Research Assistant (Toronto, Canada)
MAY 2022 - MAY 2023
- **Developed** and **fine-tuned** a deep learning-based tool to segment anomalies in first trimester prenatal ultrasounds. Work includes applying deep learning, generative models, and contrastive learning to medical imaging.

Matter Lab — Research Engineer (Toronto, Canada)
MAY 2021 - AUG 2021
- Awarded the **University of Toronto Excellence Award** to work on a **biochemical imaging** project under Vector Institute researcher Prof. Alán Aspuru-Guzik. Used **CNNs** to design 3D biomolecules. Also used a graph neural network-based model to build a dataset for antibiotic discovery, called Ad-Mol.

PUBLICATIONS

- **Kasera, Bhavya**, et al. "**Deep-learning computer vision can identify increased nuchal translucency in the first trimester of pregnancy**." Prenatal Diagnosis 44.5 (2024): 535-543.