

Simran Bagaria

simran.bagaria@gmail.com | 425-635-8123 | [Website](#) | [GitHub](#)

Education

EXPECTED GRADUATION: JUNE 2025

B.S. Computer Science, University of Washington – Seattle

- GPA: 3.90
 - Relevant coursework: Machine Learning, Natural Language Processing, Computer Vision, Distributed Systems, Databases, Systems Programming, Data Structures and Algorithms
-

Experience

JUNE 2024 – PRESENT

Software Engineering Intern / J.P. Morgan Chase Bank, Seattle, WA

- Working on application for Commercial Real Estate Loans

MARCH 2024 – PRESENT

Undergraduate Research / WEIRD Lab, University of Washington - Seattle

- WEIRD: Washington Embodied Intelligence and Robotic Development
- Researching how to train policies in simulation and transfer them to the real world
- Projects involving training a robotic hand (LEAP Hand) to perform complex tasks such as hammering
- Gaining extensive experience using **PyTorch** to train **deep reinforcement learning** algorithms such as **SAC** and **PPO**

SEPTEMBER 2023 – DECEMBER 2023

Teaching Assistant / CSE 351, University of Washington - Seattle

- CSE 351: The Hardware/Software Interface
- Teaching 30+ students weekly about concepts including data representation, caching, and virtual memory

JUNE 2023 – SEPTEMBER 2023

Software Engineering Intern / Builders Supply, Inc, Woodinville, WA

- Local Construction Company
 - Assist in developing company website
 - Write Python program to streamline process to apply for federal fuel tax credits
-

Projects

JANUARY 2024 – MARCH 2024

StrategyQA NLP Project

- StrategyQA – dataset containing questions involving implicit reasoning and answers
- Worked in group of 3 to design and implement full pipeline to answer implicit reasoning questions
- Used **ML/NLP** skills to use **PyTorch** and **Huggingface** models to generate predictions for questions
- Submitted to [Allen AI Leaderboard](#) and achieved 12th place in SARI score category among over 200 submissions

OCTOBER 2023 – OCTOBER 2023

JP Morgan Chase Code for Good Hackathon

- Full-stack application for Rebuilding Together Aurora, an NPO geared towards providing home repairs for people in need
- Worked in team of 7 people to build fully functional app in 22 hours
- Used **Express.js**, **Node.js**, **MongoDB** to build **REST API**, **React.js** for front-end

AUGUST 2023 – PRESENT

3 Steps

- Calculus Learning platform featuring unlimited practice problems for each topic
 - Live Demo: <https://simbag04.github.io/3-steps-client>
 - Used **Express.js**, **Node.js**, **MongoDB**, **React.js**, **REST API**, **d3.js**
-

Skills

- Java, Python, PyTorch, C++, C, SQL, JavaScript, MongoDB, Express.js, React.js, Node.js, HTML, CSS, Git