

# VISHAL KHOT

(412) 670-4449 ♦ Pittsburgh, PA

[vkhot@andrew.cmu.edu](mailto:vkhot@andrew.cmu.edu) ♦ [LinkedIn](#) ♦ [LeetCode](#) ♦ [GitHub](#) ♦ [vishal-khot.github.io](https://vishal-khot.github.io)

## EDUCATION

Carnegie Mellon University, School of Computer Science

Aug 2025 - May 2027

Master of Computational Data Science

BMS College of Engineering

Aug 2019 - Jun 2023

Bachelor of Engineering, Computer Science

GPA: 9.53 / 10

## SKILLS

**Languages:** C, C++, C#, Python

**Machine Learning:** Numpy, Pandas, Matplotlib, Tensorflow, Pytorch

**Databases:** MySQL, MongoDB, Cassandra

Data Structures and Algorithms, Windows Programming, Cloud Computing, Docker, Git, Jenkins, Web Development.

## EXPERIENCE

Quicken | Software Engineer 2

Jul 2023 - Aug 2025

- Worked in the **product development** team of Intuit's first product, Quicken.
- Owned end-to-end development and modernization of high-impact features that contributed to a **35%** increase in the **NPS** (customer satisfaction).
- Contributed significantly towards the development of **Quicken Online Backup**, which increased product revenue by **\$1.5M**.
- Played a pivotal role in the successful rollout of the product's re-branding release.
- Fixed multiple crashes in the application and brought down the **crash rate** from 0.8% to 0.3% by addressing access violations and memory leaks.

Quicken | Software Engineer Intern

Jan 2023 - Jun 2023

- Migrated all in-product browser components from EO Browser to Microsoft WebView2 to fix security issues in the application and presented it to the CTO as well as the CEO.
- Fixed multiple bugs related to **cloud sync** between the windows application and the companion web application.

Akamai Technologies | Software Engineer Intern

Sep 2022 - Nov 2022

- Evaluated and enhanced a tool to facilitate complete migration of source code from **Perforce** to **Git** while working as a part of the **Developer Productivity** team.

## RESEARCH PROJECTS

Reinforcement Learning for Task Offloading in Edge Computing Environments

[GitHub](#)

- Implemented a **Multi-Objective RL** agent using **Deep Q-Learning** to optimize task offloading between local and edge servers, effectively managing trade-offs between energy usage, latency, and task drop rate.
- Developed an edge computing simulation environment using **Python**, proposed and implemented the **Actor-Critic** algorithm that outperformed existing methods in optimizing latency and task drop rate.

Deep Learning for Pneumonia Detection in Chest X-Rays [↗](#)

[GitHub](#)

- Built a lightweight **Convolutional Neural Network (CNN)** for binary classification of chest X-rays (Normal vs Pneumonia). The model achieved an accuracy of **95.66%**, outperforming significantly deeper models.

## PUBLICATIONS

Pneumonia Detection Using Anterior Chest X-Ray Images [↗](#)

International Conference on Emerging Technologies in Computer Science for Interdisciplinary Applications (ICETCS), April 2024

Actor Critic based Multi Objective Reinforcement Learning for Multi Access Edge Computing [↗](#)

International Journal of Advanced Computer Science and Applications, February 2024

Deep Reinforcement Learning for Task Offloading in a Multi-Access Edge Computing Environment [↗](#)

International Conference on Network, Multimedia and Information Technology (NMITCON), September 2023