

VISHAL KHOT

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EDUCATION

Bachelor of Engineering in Computer Science

Aug 2019 - Jun 2023

BMS College of Engineering

CGPA: 9.53

Relevant Coursework: Data Structures and Algorithms; Operating Systems; Object Oriented Programming in Java; Database Management Systems; Computer Networks; Machine Learning; Cloud Computing; NoSQL Databases;

SKILLS

Languages: C++, Python, C#, Go

Databases: MySQL, MongoDB, Cassandra

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

EXPERIENCE

Quicken | Software Engineer

Jul 2023 - Present

- Working in the **Product Development** team of Intuit's first product, Quicken. Actively involved in new feature development and bug fixes.
- Played a pivotal role in the successful rollout of the product's branding release.
- Migrated one of the most used features in the application from **C++** to **.NET** using **MVVM** architecture.
- Fixed multiple crashes in the application and brought down the **crash rate** from 0.9% to 0.65%.
- Working on improving the **cloud sync reliability** of the application.

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

Sept 2022 - Nov 2022

- Evaluated and enhanced a tool which facilitates complete migration of source code from **Perforce** to **Git** while working as a part of the **Developer Productivity** team.
- Fixed issues pertaining to branch mapping and connection timeout. Carried out performance evaluation of the tool and shared the analysis report.

PROJECTS

Reinforcement Learning for Task Offloading in Edge Computing Environments

[Github](#)

- Implemented a **Reinforcement Learning** agent to make the task offloading decision while optimizing multiple objectives like energy, latency and task drop rate.
- Developed an edge computing simulation environment using **Python** and compared 6 different reinforcement learning algorithms. Won the **best project** award and published a paper in an IEEE Conference.

Pneumonia Detection using Frontal Chest X-Ray

[Github](#) [Live link](#)

- Built a **Convolutional Neural Network (CNN)** to classify chest x-ray images into two categories, Normal and Pneumonia. Trained the model using 5232 images and achieved an accuracy of **95.66%** on the test set.
- Designed a **containerized** web application using **Django** to upload images and view results easily.

URL Shortener

[Github](#) [Live link](#)

- Developed a URL shortening service using **Go** and **Redis**. **Containerized** it and leveraged **docker compose** to spin up the service and the Redis instance.

ACHIEVEMENTS

- Solved 650+ problems on [Leetcode](#). Reached 4 star on [Codechef](#) (Max Rating: 1952).
- Scored 308/450 in BITSAT and secured admission to BITS Pilani, Hyderabad Campus (B.E Hons, EEE).
- Scored 97.56 percentile in JEE(Main).
- Secured a state rank of 929 in KCET out of approximately 2 lakh candidates.
- Secured 97% in Grade 10(ICSE) and 95.4% in Grade 12(CBSE).