

# Bharat Khadka

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## Education

### Georgia Institute Of Technology

*Bachelor of Science in Computer Science*

May 2027

Atlanta, Georgia

**Relevant coursework:** Data Structures & Algorithms, Computer Organization & Programming Linear Algebra

## Skills

**Technical Languages:** Python, Java, C++, SQL, JavaScript, Lua, C#, HTML/CSS

**Frameworks:** Flask, React, Selenium, Maven, TestNG, Django, Node.js, JUnit, Bootstrap

**Tools:** Git, GitHub Actions, Figma, Linux, Jira, Trello, OpenCV, PyTorch

## Experience

### Kroger Technology & Digital | *Internship*

May 2024 – August 2024

*Software Engineer*

*Blue Ash, Ohio*

- Reduced End-to-End testing time from **5 business days** to **5 hours**, enabling code to be deployed **87.5%** faster, by automating processes with **Selenium WebDriver** and **IntelliQA robots**.
- Increased automated test coverage by **10%** by developing over **20** scripts using **Java**, **Maven**, **TestNG**, and **Selenium**.
- Decreased manual testing efforts by **40%**, leading to increased workplace efficiency, by implementing robots to simulate credit and debit card transactions.
- Improved code modularity and maintainability by designing **10** map and page classes based on the Page Object Model.
- Enhanced sprint efficiency, resolving **16** Frontend, Backend, and QA tickets, by practicing Agile methodologies.
- Improved database scalability by designing **7** API methods using **Postman**.

## Projects

### CatScan | *Facial Recognition and Identification Using Machine Learning on Raspberry Pi*

November 2023 - Present

- Engineered a facial recognition system using **OpenCV** and **C++** for accurate analysis of age, gender, and ethnicity.
- Enhanced feature classification using **PyTorch** to train ML models, leading to improved accuracy and detection.
- Created a web-application that streamed a live camera feed and let users view and access a database of recognized faces using **HTML**, **CSS**, and **JavaScript**.

### CLI Text Editor | *Simulation of Notepad using the Command Line Interface*

April 2024 - May 2024

- Created a text editor capable of editing and storing documents using **Java**.

### Harvard CS50 | *Computer Science Course Offered by Harvard*

June 2023 - August 2023

- Achieved proficiency in web development by creating websites using **HTML**, **CSS**, **JavaScript**, **Bootstrap**, and **Flask**.
- Functionalized databases by integrating **SQL** into **Python** applications to manage and sort real-time data.
- Created applications to track stock prices, manage calendar scheduling, and sort user information using **React JS**.

### Game Development | *Personal Hobby for Educational and Recreational Purposes*

December 2022 - January 2024

- Created games to play with friends on Roblox with **Roblox Studios** and **Lua**.
- Developed Minecraft server plugins using **Java**, **Maven**, and **Spigot API**.
- Recovered discontinued games by recreating them in **Unity Studios** using **C#** and **Asperite**.

### First Robotics Competition | *Globally Competitive Robotics Competition*

January 2021 - May 2023

- Developed an informational website and a data collection application for Respawn Robotics using **React** and **Firebase**.
- Collaboratively optimized 3 robots by implementing Object Oriented Programming, Command Based Programming, Visual Tracking, Telemetry, Motion Profiling, Autonomous Routines, 3D Odometry, and Path-planning.

## Leadership And Community Engagement

### Video Game Development Club | *Member*

August 2024

- Collaborated with a team of developers to create Chime, a rouge-lite isometric RPG.

### GT Big Data Big Impact | *Member*

August 2024

### Web Development Club | *Member*

August 2024

### GT Data Science | *Member*

August 2024

### Dungeons & Dragons | *Member*

August 2023

### Society of Asian Scientists and Engineers | *Member*

August 2023

### First Robotics Competition | *Lead Programmer*

January 2021

- Led a team of **55** people to design and develop **3** 120-lb robots within **6** weeks.
- Secured **4th** place in 2 regional competitions and world championships with **4** awards for engineering excellence.
- Developed Gantt charts and schedules while facilitating day-to-day operations of team members to train **120** recruits.

## Certifications

### J.P. Morgan Software Engineering Virtual Experience on Forage

July 2024

- Generated a live stock-tracking graph that displays a data feed for traders to monitor, using **Perspective**, **TypeScript**, and **React**.