

Bharat Khadka

513-410-8060 | BharatKh2468@gmail.com | [LinkedIn/Bharat-Khadka](https://www.linkedin.com/in/Bharat-Khadka) | [GitHub/Bharat1298](https://github.com/Bharat1298)

Education

Georgia Institute of Technology

May 2027

Bachelor of Science in Computer Science

Atlanta, Georgia

Relevant coursework: Data Structures & Algorithms, Computer Organization & Programming, Linear Algebra, Object-Oriented Programming, Discrete Mathematics

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 40 hours 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**, resolving 16 Jira tickets and accelerating sprint completion through Agile development.
- Lowered manual testing efforts by 40% by creating 7 API methods using **Postman** to simulate credit and debit card transactions, leading to increased workplace efficiency.

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 allowed users to view and access a database of recognized faces using **HTML**, **CSS**, and **JavaScript**.

Harvard CS50 | *Computer Science Course Offered by Harvard*

June 2023 - August 2023

- Enhanced database functionality by integrating **SQL** into **Python** applications for real-time data management.
- Achieved proficiency in web development by creating websites using **HTML**, **CSS**, **JavaScript**, **Bootstrap**, and **Flask**.
- Created applications to track stock prices, manage calendar scheduling, and compile user information using **React**.

Game Development | *Hobby for Educational and Recreational Purposes*

December 2022 - January 2024

- Created games and simulations to play on Roblox with **Roblox Studios** and **Lua**.
- Developed Minecraft server plugins using **Java**, **Maven**, and **Spigot API**.
- Recreated decommissioned games in **Unity Studios** using **C#** and **Aseprite** to replicate functionality and design.

FIRST Robotics Competition | *Capstone For Associate's Degree*

January 2021 - May 2023

- Developed an informational website for Respawn Robotics using **React** to increase brand recognizability.
- Created a scouting application to track and visualize robot performance during competitions using **React** and **Firestore**.
- Refactored 3 codebases from **LabVIEW** to **Java**, implementing Visual Tracking, Motion Profiling, Autonomous Routines, 3D Odometry, and Path-planning into competition robots to improve performance and functionality.

Leadership And Community Engagement

Video Game Development Club | *Member*

August 2024

- Developed core functionality for Chime, a roguelite isometric RPG, using **Unity** and **C#**.
- Collaborated with club members to create art designs and story dialogue for Chime, using **Trello** to manage tasks.

GT Big Data Big Impact | *Member*

August 2024

Asian American Student Association | *Member*

August 2024

GT Data Science | *Member*

August 2024

CHEFS At GT | *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 to design and develop 4 robots within 6 weeks, securing 4th place in 7 regional competitions, 6th place in world championships, and winning 7 awards for 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 using **Perspective**, **TypeScript**, and **React**.