

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, Object-Oriented Programming, Discrete Mathematics

Skills

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

Frameworks: Flask, React, MongoDB, Express, Next.js, Selenium, Django, Node.js, Bootstrap

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

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 Characteristic Identification on Raspberry Pi*

November 2023 - Present

- Engineered a recognition system using **OpenCV** and **C++** for accurate analysis of facial features.
- Amplified model detection and accuracy by 80% using **PyTorch** and **TensorFlow**.
- Crafted a web application that streams a live camera feed and allows 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.
- Created applications to track stock prices, manage calendar scheduling, and compile user information using **HTML**, **CSS**, **JavaScript**, **Bootstrap**, **Flask**, and **React**.

Game Development | *Hobby for Educational and Recreational Purposes*

December 2022 - January 2024

- Originated games and simulations to play on Roblox with **Roblox Studios** and **Lua**.
- Programmed 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

- Crafted a scouting application to track and visualize robot performance during competitions using **React** and **Firestore**.
- Constructed an informational website for Respawn Robotics using **React** to increase brand recognizability.

Leadership And Community Engagement

LearnScapes | *Progression and Visualization Tool Developed During HackRice*

September 2024

- Developed a 3D goal-tracking application using **Next.js**, **Three.js**, **React**, and **TailwindCSS**.
- Implemented a shop system to create environments using points earned through tasks with **MongoDB** and **Next.js**.
- Designed algorithms to generate personalized learning steps with embedded videos using dynamic API calls.

DonorMatch | *Charity Application Created at HopHacks to Improve Philanthropic Efforts*

September 2024

- Founded a platform for charities to search for supplies using **React**, **JavaScript**, **MongoDB**, **Express**, and **Node.js**.
- Programmed a matching algorithm to pair donors with relevant charities, making donations easier and more accessible.
- Enforced platform security to ensure user and organization safety using **Auth0**.

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.
- Produced Gantt charts to facilitate day-to-day operations of team members while training 120 recruits.

Clubs and Organizations

Big Data Big Impact | Data Science Club | Web Development Club | Asian American Student Association

Society of Asian Scientists and Engineers | CHEFS at Tech | Video Game Development | Dungeons & Dragons

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**.