Bharat Khadka

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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

Skills

Technical Languages: Python, Java, C++, SQL, JavaScript, Lua, C#, HTML/CSS Frameworks: Flask, React, Selenium, Mayen, 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.
- 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

- Functionalized databases by integrating SQL into Python applications to manage and sort real-time data.
- 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 | 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 GT Data Science | Member

Dungeons & Dragons | Member

August 2024 August 2024

Society of Asian Scientists and Engineers | Member

August 2023 August 2023

January 2021

First Robotics Competition | Lead Programmer

- Led a team of **55** people to design and develop **3** 120-lb robots within **6** weeks.
- Secured 4th place in 7 regional competitions and competed in world championships, earning 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 to monitor, using **Perspective**, **TypeScript**, and React.