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, Maven, TestNG, Django, Node.js, JUnit, Bootsrap
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

- 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 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*   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 **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**.