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,
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**.
- Lowered manual testing efforts by **40%**, increasing workplace efficiency by implementing robots to simulate credit and debit card transactions.
- Resolved **16** Jira tickets, leading to accelerated sprint completions, through Agile collaboration.
- 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 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 **Firebase**.
- 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.

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** 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**.