

Bharat Khadka

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Education

Georgia Institute of Technology

Bachelor of Science in Computer Science

May 2027

Atlanta, Georgia

Skills

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

Frameworks: React, Next.js, Flask, Node.js, TailwindCSS, Express, FastAPI, Django, Three.js, Bootstrap

Tools: Git, GitHub Actions, MongoDB, AWS, OpenCV, PyTorch, TensorFlow, Postman, Selenium, Linux

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%, resolving 16 Jira tickets and accelerating sprint completion by 5 days, by using Agile practices to develop 20+ scripts with Java, Maven, TestNG, and Selenium
- Lowered manual testing efforts by 40%, enabling 15% faster sprint cycles, by creating 7 API methods using Postman to simulate credit and debit card transactions

Projects

CatScan | *Facial Recognition and Characteristic Identification*

November 2023 – Present

- Engineered a recognition system for accurate analysis of facial features with OpenCV and C++
- Amplified model detection and accuracy by 80% by utilizing PyTorch and TensorFlow
- Crafted an application to manage databases of recognized faces using PostgreSQL, JavaScript, and Node.js

Sense | *Mental Health Monitoring and Early Symptom Detection*

September 2024

- Developed a platform to detect mental health conditions with 85% accuracy using React and TypeScript
- Increased site interactivity by 250% by designing and integrating algorithms to analyze user information using Next.js, TailwindCSS, OpenCV, Python, and FastAPI
- Increased personalization by 3x by implementing a Chatbot and Hospital Locator using OpenAI API and MapBox API
- Deployed secure storage to manage videos and user data with Auth0, MongoDB, and AWS S3

LearnScapes | *3-D Goal Progression and Visualization*

September 2024

- Optimized user productivity by 70% by creating a 3D objective-tracking tool with Three.js and React.
- Improved user motivation by 40% by developing a custom environment builder using Next.js, MongoDB, and Express
- Implemented personalized learning steps using the OpenAI API and YouTube Data API

DonorMatch | *Charity Donation Matching*

September 2024

- Designed an application to match charities with donors using React, JavaScript, MongoDB, Express, and Node.js
- Increased donation efficiency by 300% by implementing searching algorithms to pair donors with charities with Python
- Enforced platform security to ensure user and organization safety using Auth0

Game Development | *Hobby for Learning and Recreation*

December 2022 – January 2024

- Created 3 multiplayer Roblox games for local events using Roblox Studios and Lua
- Developed 15 Minecraft plugins that were enjoyed by 60 people across multiple servers by utilizing Java and Spigot API
- Recreated 6 decommissioned games to preserve memories using Unity Studios, C#, and Aseprite

Leadership And Community Engagement

Hackathons | *Project Lead*

September 2023 – Present

- Managed a team of 3-4 people in various events, creating full-stack applications within 36 hours, by allocating tasks and responsibilities, providing feedback and guidance, and fostering a positive learning culture for members
- Implemented the engineering design process across 4 projects, leading teams to create solutions for complex industrial and social challenges under strict constraints

FIRST Robotics Competition | *Lead Programmer*

January 2021 – May 2023

- 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
- Trained 120 recruits in controls engineering and design, developing their skills with CAD, electronics, and programming

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