

Shayer Irtiza Khan

(571) 340-6668 | ikzshayer@gmail.com | Fairfax, VA, 22030

EDUCATION

George Mason University

Fairfax, VA

Bachelor of Science in Computer Science — GPA: 4.0/4.0

Dec 2027

Relevant Coursework: Intro Computer Programming, Calculus I, Calculus II, Discrete Math, Linear Algebra, Object Oriented Programming

TECHNICAL SKILLS

Languages: Javascript, Python, C, HTML/CSS, Java

Frameworks: React, Node.js, Express.js, Mongoose, Next.js, TailwindCSS, PostCSS, Tesseract, Django, Flask

Developer Tools: MongoDB, Git, Github, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Heroku, Vercel

EXPERIENCE

Undergraduate Research Assistant

February 2025 - Present

Nguyen Engineering Lab | Advised by Dr. Wing Lam

Fairfax, VA

- Developing tools and frameworks for detecting Flaky tests for Maven based projects utilising Java and Maven, and for improving CI/CD pipeline.

PROJECTS

Discord Bot | *Javascript, Node.js, Discord.js, MongoDB, Heroku, FFmpeg*

- Designed and implemented a discord bot utilizing the Node.js framework and discord.js library as a solo developer
- Completely automated moderation in servers in 10+ servers, implemented a life simulator game storing data from 100+ users using MongoDB and designing engaging and fun commands
- Implemented music listening functionality using ffmpeg and Node.js modules

Helping Hands | *Javascript, Node.js, MongoDB, Express, React, ChakraUI*

- Built a volunteer matchmaking platform that allows people to create postings for volunteer work, matching them with people based on tags and preferences.
- Implemented an advanced authentication system utilizing Express and MongoDB for storing data

Better Steps | *Javascript, MongoDB, NextJs, React, TailwindCSS, Flask, Python*

- Built a full-stack web application that detects stages of diabetes and aims to prevent misdiagnosis
- Implemented an AI model uses Random Forest classifier to make predictions.
- Integrated Tesseract OCR to extract text from images, allowing for data interpretation from lab reports.

LEADERSHIP

Student Government

October 2024 - Present

- Worked on representing the interests of students and collaborating with university administration and student organizations to enhance the student experience.
- Committed to outreaching to various students across campus and organizations, and identifying critical problems devising solutions to address them

Lead at PatriotHacks (George Mason's Annual Hackathon)

January 2025 - Present

- Developing relevant workshops, ensuring smooth operations and recruitment of experienced mentors for the premier hackathon of George Mason University involving 500+ students.
- Managing collaboration of clubs to build upon a fellowship program that provides training to amateur programmers.

CERTIFICATES

Outstanding Cambridge Learners Award

June 2022

- Issued by University of Cambridge, obtained the highest mark nationally in Mathematics Syllabus D in O-Levels by applying critical problem solving and mathematical skills.

Career Essentials in Software Development by Microsoft

September 2024

- Explored the skills needed for a career in software development and its life cycle
- Learned core programming concepts, practices and terminology