

# Ohm Kamalesh Panchal

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## EDUCATION

**George Mason University || Fairfax, VA**

**Graduation: 12/2025**

*B.S. Computer Science*

*Honors College Student*

**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Computer Systems & Programming, Software Engineering (Full Stack), Object Oriented Programming.

## TECHNICAL SKILLS

**Languages:** Java, Python, C#, HTML/CSS, JavaScript/TypeScript, C/C++, Assembly, jQuery, SQL, ThreeJS

**Skills:** AWS, Unix, AirCode.io, Blazor, React, NextJS, NodeJS, TailwindCSS, .NET, PHP, Django, PostgreSQL

## WORK EXPERIENCE

**DLB Associates - Software Engineer Intern**

**06/2024 – 08/2024**

- Developed software solutions to meet client requirements and designed new applications to enhance service offerings.
- Collaborated on full-stack development projects, gaining hands-on experience in a dynamic, team-oriented environment.
- Engaged in comprehensive training programs to stay current with the latest industry practices and technologies.

**Headstarter Fellowship**

**07/2024 – 09/2024**

- Built 5+ AI apps and API's using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy as seen by 1000 users
- Developed projects from design to deployment leading 4+ engineering using MVC design patterns.
- Coached by Amazon, Bloomberg, and Capital One engineers on Agile, CI/CD, Git and microservice patterns.

**Code Ninjas - Tutor**

**07/2023 – 05/2024**

- Instructed children aged 7-14 the fundamentals of coding and JavaScript.
- Assisted students in problem-solving and debugging, creating a hands-on learning environment.

## PROJECTS

**AI Fitness Coach – SHRED AI - (NextJS, React, TypeScript)**

- **Developed an AI-powered fitness coaching application** generating customized workouts sent directly to users' phones.
- **Integrated OpenAI Assistant** to analyze user data, provide personalized fitness plans, and enhance user engagement with real-time advice and workout suggestions.
- **Implemented secure user authentication** ensuring a seamless and personalized experience.

**Blockchain (Java)**

- Created a program to implement a simplified blockchain used for transactions by cryptocurrencies, such as bitcoin.
- The project used linked lists, priority queues, blocks, the blockchain itself, and a Merkle tree for efficient transaction verification.

**Platformers Game (Python)**

- Learned game development by incorporating game mechanics, character movement, and interactions to create objects in the game with a live character the user controls.
- Used a variety of different programming skills such as OOP, Pygame Library, Debugging, and Animations.

**Software Floating Point Library (C)**

- **Implemented custom floating-point arithmetic operations** and developed functions to handle multiplication, addition, subtraction, and negation of floating-point numbers.
- **Optimized bitwise manipulation and data representation**, utilized bitwise operations to manage sign, exponent, and fraction fields, ensuring accurate and efficient processing.