

Poughkeepsie
New York 12603

www.github.com/bashirad

Bashir Dahir

845.453.2940
bashir.dahir1@marist.edu
www.linkedin.com/bashirad

Employment

Software Engineer, Intern	DoggyDay (startup)	June 2023 – Mar 2024
Dog Sitter Finder (www.doggyday.co): Connects Dog loving neighbors with owners seeking dog sitters.		
<ul style="list-style-type: none">Built a web application using React and TypeScript towards more seamless community interactions.Integrated Airtable as the backend and implemented server-side with PHP to manage data/bookings.		
Software Engineer, Intern	Marist College	June 2023 – Aug 2023
Blackjack GPU Learning (https://github.com/bashirad/BlackjackGPU): GPU Model for Blackjack.		
<ul style="list-style-type: none">Developed high-performance computing simulation codes to find the optimal solution to problems.Accelerated a massively parallel, turn-based game simulation, BCG, by applying Artificial Intelligence.Utilized reinforcement learning method via NVIDIA's compute unified device architecture (or CUDA).		
Software Engineer, Intern	Marist College	June 2022 – Aug 2022
Cybersecurity In-Class Exercises (https://github.com/bashirad/CYBER/tree/main): In-class exercises.		
<ul style="list-style-type: none">Researched on Cybersecurity methodologies and analyzed best practices to design class exercises.Developed a web-based suite of activities hosted on AWS, including coding challenge exercises.Implemented SQL injection and Caesar Cipher demonstrations, tailored to the <i>CMPT_416s</i> syllabus.		

Software Projects

Project 1: tsiraM-6502 Processor (https://github.com/bashirad/itsiraM): Virtual 6502 processor.		
<ul style="list-style-type: none">Developed a virtual 6502 processor to understand machine architecture and low-level programming.Implemented the project, focusing on creating an accurate 6502 architecture and instruction set.Connected front-end and back-end, utilizing TypeScript for the logic and Node.js for server-side.		
Project 2: ADAS - Asher Dam Alert System (https://github.com/bashirad/iADAS): Flood alert system.		
<ul style="list-style-type: none">Configured a database for monitoring flood levels, using MySQL for data and Node.js for server ops.Monitored a 4-day period, displaying the appropriate discharge volumes and time valve openings.Processed data, utilizing HTML, CSS, JavaScript, and MySQL for real-time updates and notifications.		
Project 3: Charlie – Extensible Blackjack Application (https://github.com/bashirad/Charlie): Game Application.		
<ul style="list-style-type: none">Implemented Huey and Dewey bots to simulate real players in Charlie's client-server architecture.Ensured seamless integration of bots within the plugin system without modifying core functionality.Developed bot behaviors with Java for proper interaction with the Dealer and RealPlayer components.		

Education

Poughkeepsie, NY	Marist College	Aug 2020 – May 2023
<ul style="list-style-type: none">Major: Software Development, BS (in-major GPA: 3.45).Minor: Computer Science, Information Technology, Information System.Programming Coursework: Software Development 1 & 2, Internetworking, Algorithm Analysis & Design, System Design, Computer Architecture, Artificial Intelligence, Design of Compilers.		
Poughkeepsie, NY	Marist College	Aug 2023 – Dec 2024
<ul style="list-style-type: none">Major: Software Development, MS (in-major GPA: 3.40).Minor: Computer Science, Information Technology, Information System.Programming Coursework: Artificial Intelligence, Software Design and Development, Cloud Computing, Parallel Processing, Security Algorithms, Database Mgmt System, and Game Design.		

Skills

Software (Proficient): Python, JavaScript, Java, C, C++, C#, R, PHP, TypeScript, and Haskell.