Bijan Sharifi

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EDUCATION

University of Maryland-College Park **Boston, MA/College Park, MD**
Bachelor of Science: Computer Science *Class of 2025*
Cumulative GPA: 3.4/4.0
Relevant Coursework: Object Oriented Programming, Data Structures, Discrete Structures, Computer Systems, Algorithms, Organization of Programming Languages, Calculus I & II, Linear Algebra, Statistics for Engineering and the Sciences, Advanced Data Structures, Data Science
Certifications: Honors Student
Skills: Proficient Programming Languages: Java, C, Python, OCaml, Ruby, SQL, Linux, Scheme, Rust, JavaScript, TypeScript, MATLAB, Git, Excel, Tableau

PROFESSIONAL EXPERIENCE & PROJECTS

AngioWave Developer (Python)
Internship (Boston MA)
- Worked with a team of developers and interns at SpectraWave to develop an A.I model used to analyze angiograms.

Technology Consultant
App Development Collaborator
- Worked with a local startup High St. Lawn Unlimited LLC. to create an app for their clients to increase revenue.
- Helped determine conceptual implementation strategies, helped solve problems, and provided support to inexperienced developers.

Lexer, Parser, and Interpreter (OCaml)
Developer
- Program that generates a token list from an input string, which then creates a parse tree, which is then used by the interpreter to give/check meaning to the tree. All the tools needed to create own programming language.

Data Structures Implemented
Developer
- Fully functioning Binary Search Tree recursively. Efficient search, insertion, deletion (Java)
- Weighted graph data structure with ability to traverse with breadth first, depth first, and lowest cost path to a vertex (Implemented Dijkstra's algorithm) (Java)
- LinkedHashSet implemented for fast ordering (Java)
- Various in place and out of place sorting algorithms on lists (C, Java, Ruby)

Regular Expression Engine/NFA-To-DFA(OCaml)
Developer
- Program that generates Regex from an NFA , as well as converting an NFA to a DFA

Computer Systems
Developer
- Coded various basic recursive functions in MIPS Assembly (MIPS)
- Implemented a fully functioning shell with piping and exec functions to give commands to computer(C)
- Implemented a Grade Calculator (C)

Other Projects
Developer
- Language translator that maintains proper grammar structure across the various languages (Ruby)
- Fully functioning basic unit converter, can go from metric to imperial (and vice versa) and includes temperature conversions (Java)
- Poker and blackjack games (Java)
- Minimum Snippet program that finds the smallest section of characters between two specific characters given a document. Used to parse data. (Java)

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

Junior Youth Spiritual Empowerment Program **Boston, MA**
Animator *January 2018 – Present*
- Created, led, and evaluated 20+ both in-person and virtual camps/ retreats, program curricula, arts programming, healthy recreation activities, and service projects
- Liaised with administrators of public schools, recreation centers and other community organizations to identify students in need and cultivate resources for the empowerment program