

DYLAN PATEL

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EDUCATION

University of Maryland, College Park MD
B.S. Computer Science (Machine Learning Track)
Dean's List Fall 2021 & Spring 2022

GPA: 3.5/4.0
Expected: May 2025

Relevant Coursework

- Object Oriented Programming I & II, Calculus I & II, Linear Algebra, Discrete Structures, Computer Systems, Algorithms, Organization of Computer Languages, Introduction to Data Science

Technical Skills

- Java, Linux, C, Assembly, Ruby, OCaml, Rust, MATLAB, Git, Agile Workflow

PROJECTS

OCaml Interpreter

April 2023

- Developed an OCaml interpreter comprised of a custom built lexer, parser, and evaluator
- Designed lexer to tokenize input strings and parser to place tokens in an abstract syntax tree based on a context free grammar
- Constructed an evaluator to traverse the abstract syntax tree and map it to a value using operational semantics in the algorithm

MicroShell

November 2022

- Built a custom shell from scratch in C capable of supporting boolean operations, pipes, and file redirection
- Executed basic shell commands and operations by traversing a parse tree and using system calls such as pipe, fork, and dup
- Leveraged inter-process communications to execute commands concurrently and improve performance

Orders Processor

August 2022

- Architected using multi-threading programming techniques in Java
- Concurrently processes multiple orders of unique items based on a customer's purchase history by reading large data files
- Provides a statistical summary showing the quantity of items purchased and total amount in sales made

WORK EXPERIENCE

Lockheed Martin

Moorestown, NJ

Radar Systems Engineer Intern

June 2023-August 2023

- Utilized Agile methodologies to support the Integration and Test team for the Aegis Ballistic Missile Defense (BMD) System
- Designed and implemented data validation scripts in MATLAB, automating regression testing for current and future BMD builds
- Conducted analysis and evaluation of radar performance using data collected from lab demonstrations and tests
- Served as the Lead Software Developer for an Autonomous Reconnaissance Robot, overseeing the entire product lifecycle

EXTRACURRICULAR INVOLVEMENT

University of Maryland Interfraternity Council

College Park, MD

Vice President of External Affairs

Spring 2023 – Fall 2023

- Sustained external relations with key stakeholders including SGA, University administrators, and the City of College Park
- Initiated a weekly trash cleanup program in collaboration with City Council to improve relations between students and residents
- Managed a budget of ~100k to plan and organize gatherings of up to 5,000 students to strengthen harm reduction on campus

Zeta Psi Fraternity

College Park, MD

Secretary

Spring 2023 – Fall 2023

- Coordinated housing arrangements for 86 members to find them affordable homes to live in during the school year
- Networked with landlords around College Park to assist them in finding tenants for their rental properties
- Facilitated contract negotiations and oversaw lease agreements fostering a mutually beneficial relationship between both parties

Google Student Developer Club

College Park, MD

Member

Fall 2022 - Present

- Took part in hands-on workshops to learn about Google developer technologies and industry relevant software engineering skills
- Worked closely in a peer-to-peer learning environment to create projects and solutions towards current challenges in the community

Ten Terp Plan for Sexual Assault Prevention

College Park, MD

Volunteer

September 2022 – November 2022

- Voluntarily participated in a ten-week workshop dedicated to preventing sexual assault at the University of Maryland
- Actively worked to create a positive cultural change in the community by discussing how sexual assault can be prevented and ways to provide support to individuals who may be victims

Interests: Entrepreneurship, Quantum Computation, FinTech, Philosophy, Politics, and Law