

# 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 processed multiple orders of unique items based on a customer's purchase history by reading large data files
- Provided 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*