

# POOJA PATEL

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**OBJECTIVE:** Seeking Summer Internship in Computer Science field.

**EDUCATION:** **University of Maryland, University College. MD**  
B.S. in Computer Science, December 2019, **GPA: 3.7**  
**Rutgers University, School of Engineering, New Brunswick. NJ**  
B.S. in Computer Science, September 2016-May 2018, **GPA: 3.018**

**TECHNICAL SKILLS:** **Programming:** Java, C, C++, Android, HTML, PHP,  
**Database:** MYSQL  
**Operating Systems:** Windows XP, Linux, Mac  
**Applications:** MS Office, MS Visio, Wireframe Tools

<b>RELEVANT COURSES:</b>	Computer Architecture	Software Methodology
	Intro Discrete Structure I	Intro to Computer Science
	Intro Discrete Structure II	Principle of Programming Language
	Data Structure	Intermediate Programming
	Advanced Programming Languages	Building Secure Web Applications
	Design and Analysis of Computer	Object Oriented and Concurrent
	Algorithms (Current)	Programming (Current)

**KNOWLEDGE:** Basic knowledge about essential principles, techniques and tools used to develop large modern software, that includes,

- Object-oriented programming and design.
- Unified Modeling Language (UML).
- Asynchronous (event-driven) programming in a Graphical Use Interface (GUI) framework.
- Object persistence, code maintenance and version management using Git and Bitbucket.
- Developing apps for the mobile platform (Android).
- Multithreading, design patterns, and new Java language features such as lambda expressions and streams.
- An understanding of key security properties to analyze and compare current and prevalent risks, threats, vulnerabilities, and attacks to web applications.
- Knowledge of a simple HTML and PHP web applications that interact with a MYSQL database.
- Use of open-source tools and other approaches to detect, analyze, and mitigate web application threats and vulnerabilities, and document the process and findings.
- Writing a program that uses a data structures, including arrays, strings, linked lists, stacks, queues, sets, and maps
- Design, implement, test, debug, and document recursive functions, GUI, event-driven programs.
- Use formal semantics and syntax to analyze and compare programming languages.
- Compare and contrast declarative and imperative programming language paradigms.
- Writing a safe and secure computer programs in a variety of languages.

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## **CLASS PROJECTS: 1. Java Programming Language:**

- Built a photo application that allows storage and management of photos in one or more albums using JavaFx.
- Designed and implemented an application with a graphical user interface to manage a library of songs.
- Applied the object-oriented design ideas to design and implement the chess game.
- Built Android project.
- Developed a project which involves writing a program that computes the salaries for a collection of employees of different types.
- Created a project that involves writing a program that implements an ATM machine using a Java GUI interface.

## **2. C Programming Language:**

- C program that implements simple “one-shot” machine learning algorithm for predicting house prices.
- Implemented a cache simulator to evaluate different configurations of caches.

## **3. HTML, PHP and MYSQL Database:**

- Developed a web page comprised of formatted text, images, lists, tables, hyperlinks and forms using HTML and CSS.
- Created a simple PHP application comprised of basic syntax, variables, strings, selection statements and repetition statements within a AWS cloud VM.
- Read and analyzed reports produced from vulnerability analysis tool (ZAP) and prioritize and fix alerts associated with software issues.
- Created powerful PHP application using Windows, Apache, MySQL and PHP (WAMP), connected to a MySQL database.
  - Created least privilege MySQL accounts for the Web connection.
  - Inserted data into a MySQL database using PHP forms.
  - Query existing data in a MySQL database using PHP forms.
  - Deleted data from a MySQL database using PHP forms.
  - Update data in a MySQL database using PHP forms.
  - Identified and used best practices to eliminate SQL injections.

## **WORK EXPERIENCE:**

### **Quick Mart Pharmacy, Milltown NJ Pharmacy Technician, Nov 2016 – May 2017**

- Assisted customers with purchases and managed cash register operations accurately.
- Maintained an awareness of all promotions and advertisements.