

NILAY PATEL

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EDUCATION

Arizona State University, Ira A. Fulton Schools of Engineering Tempe, AZ

Expected Graduation Date: May 2025

Bachelor of Science, Computer Science

Minor in Business

Coursework: Data Structures and Algorithms in C++, Principles of Programming Languages, Theoretical Computer Science, Object Oriented Programming in Java, Operating Systems (In Progress), Database Management (In Progress)

EXPERIENCE

Global Tech

Web Developer

Jan 2023- May 2023

- Wrote and tested test cases using JavaScript in order to help find potential bugs, then implemented necessary code enhancements, resolved bugs, and optimized performance whenever necessary
- Routinely collaborated with diverse teams in order to create and complete websites using JavaScript, HTML and CSS
- Reviewed existing code and identified areas requiring improvement or completion

Walmart

Personal Shopper

July 2020 - Sep 2023

- Routinely worked in small teams in order to ensure proper service and maximize workplace efficiency under tight deadlines
- Followed application instructions closely and reviewed deliveries to minimize errors

PROJECTS

Email Management Program - Python

- Developed a backend for an innovative email management program designed to streamline inbox organization and reduce spam
- Implemented algorithm to scan user emails for common spam indicators such as “unsubscribe” links, as well as functionality allowing users to review identified emails and choose which subscriptions to maintain or have the program cancel
- Engineered components to delete emails, create custom labels, and categorize emails for enhanced inbox organization (pending final testing)
- Implementing a frontend using react to build a dynamic and responsive user interface with plans of: Utilizing Flask for robust API functionality, design RESTful API endpoints to facilitate efficient data exchange in JSON format between the frontend and backend, and integrate a MySQL database for secure and scalable data storage (In Progress)

Fully Autonomous Chess AI - Prolog

- Led a team of three developers throughout the project lifecycle, using agile scrum methods in order to ensure efficient collaboration and timely delivery to developed an interactive chess game with an intelligent AI opponent
- Programmed the AI using Prolog's logic-based paradigm to simulate an intelligent opponent capable of making strategic moves, along with a user interface that allows for easy interaction and move input by the player, as well as continuous board prints ensuring the player can track the game progress visually
- Managed project workflow using Jira to assign tasks, track progress, and conduct sprint retrospectives, which improved team efficiency and overall project transparency

Interactive Matching Game - JavaScript, CSS, HTML

- Crafted a detailed and user-friendly graphical user interface using HTML and CSS in order to create visual appeal and provide an intuitive gaming experience
- Implemented game mechanics using JavaScript such as card shuffling, match identification, flip/match counters and game state management; as well as unique sound effects for card flips, successful matches, and game completion to enrich the gameplay experience
- Built interactive elements including card flip effects, clickable functions, and a reset game feature for enhanced user engagement

Bank Management System - Java

- Developed a comprehensive bank management system using Java for backend development, demonstrating expertise in application development and database management with a focus on robust and efficient code
- Designed and implemented a user-friendly, GUI interface for account management, enhancing user experience and interaction
- Crafted a secure login system enabling users to create and access their accounts using a unique ID and self-created password, along with a database to keep track of created accounts throughout multiple sessions

SKILLS

Programming Languages: Java, C/C++, Python, JavaScript, HTML, CSS, Prolog

Tools/OS: Windows, Linux, GitHub, Astah (UML), Jira, Eclipse, VS Code, Bootstrap (CSS), MySQL, React.js

Certifications: AWS Cloud Practitioner (In Progress)

Some Hobbies: Huge football and basketball fan, playing pick up games at the park, going to the gym and late night drives