

# Mark Alexander

WWW.LINKEDIN.COM/IN/MARK-ALEXANDER-940B62257 |  
HTTPS://MARKSALAMANDER.GITHUB.IO/SALAMANDER

**Mount Airy, MD | 719-205-1930 | markw.alexander2@gmail.com**

## Objective

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I aim to obtain a full-time entry-level software engineering role in the Maryland area where I can grow my technical and analytical skills. As a recent graduate student, I hope to pursue a challenging work-role where I may design, develop, test, and integrate new software or systems solutions on various platforms. Though I am new to the field, I am eager to learn more about software engineering, work with others in a collaborative team environment, and help foster new development in this highly evolving domain.

## Education

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**Towson University, Bachelor of Science – Computer Science, GPA 3.65** **2024**

Relevant Coursework: Artificial Intelligence, Cybersecurity, Cryptography, Data Communications & Networking, Java, Mobile Applications Development, Operating Systems, Software Engineering

**Pikes Peak Community College, Associate of Science – Computer Science, GPA 4.0** **2020**

Relevant Coursework: Computer Architecture MIPS / Assembly, Computer Science I & II: C++

## Skills & Abilities

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**Languages:** C/C++, Java, JavaScript, Kotlin, Python

**Frameworks & Libraries:** React, Node.js, Express.js, PyTorch, TensorFlow

**Developer Tools & Technologies:** Git, Linux, MongoDB, Visual Studio 2022, Visual Studio Code

## Projects

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**Full-Stack Game Website** | MongoDB, Express.js, React, Node.js

- Collaborated closely with team members to develop a multi-game website using MongoDB, Express.js, React, and Node.js.
- Led the implementation of front-end functionalities, leveraging React to create dynamic and interactive interfaces for games such as tic-tac-toe, checkers, and connect four.
- Designed and developed the login and signup pages, ensuring secure authentication, while integrating them seamlessly with the back end.

**Android Planner Application** | Kotlin, Jetpack Compose

- Developed an Android planner application using Kotlin and Android Studio to help users track tasks and events, viewable via a calendar or task list.
- Designed and implemented a user-friendly and intuitive user interface, ensuring a

seamless and responsive experience across screen sizes and devices.

- Implemented a database system using Android's Room Database library to efficiently manage user data, ensuring seamless storage and retrieval of information within the application.

#### **TU Course Finder Web Extension | JavaScript**

- Developed a Chrome extension to help Towson University students easily locate their classrooms by integrating class data from PeopleSoft and providing Google Maps directions.
- Collaborated with my team to implement an IndexedDB database, resolving issues related to data flow and ensuring seamless link injections onto the webpage.

#### **Snake Game A.I. | Python**

- Utilized Python and PyGame to construct and train an AI model efficiently through a genetic algorithm.
- Implemented reproduction and mutation of the "fittest" snake to simulate generations of snakes that adapt and improve.

#### **Nintendo DS Icon Extractor | C, C++**

- Translated a JavaScript project into C/C++ to extract and reconstruct game icon data from a Nintendo DS game file into a PNG image.
- Gained hands-on experience with C/C++ while adapting the code to work within the context of an open-source Nintendo DS emulator.

### **Previous Work Experience**

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#### **Independent Car Service Inc. | Office Assistant Manager, Finksburg, MD**

**2025 – Present**

- Manage booking system and coordinate transportation schedules.
- Handle customer inquiries and booking requests via phone and email.
- Assist in creating and maintaining operational reports.

#### **Food Lion | Stocker, Mount Airy, MD**

**2022 – 2023**

- Responsible for receiving, verifying inventory, and stocking shelves throughout the store.
- Ensured item presentation was well organized and faced in a professional manner.
- Provided prompt customer service as necessary.

#### **Walmart | Cashier, Colorado Springs, CO**

**2019 – 2020**

- Provided exceptional customer services by efficiently processing cash, credit, and debit transactions.
- Maintained store cleanliness, stocked shelves, and ensured the front-end area was organized and ready for customers.