Andrew McLaughlin

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EDUCATION

The University of Texas at Arlington   GPA: 3.78
Bachelor of Science, Computer Science   *Aug. 2021 – May 2025*
- ACM (Association for Computing Machinery) Member - Spring 2023, Fall 2023
- Dean's List - Spring 2023
- Honor Roll - Fall 2022, Spring 2023
- Relevant Coursework: Data Structures and Algorithms, Secure Programming, Linear Algebra, Intro to Software Engineering, Operating Systems, Databases, Theoretical Computer Science, AI, Networking

Collin College   GPA: 3.5
Associate of Science   *Aug. 2017 – Dec 2020*

EXPERIENCE

Fulfillment Member   May 2022 – Aug 2022
Target
- Monitored inventory levels and communicated stock shortages or discrepancies to the management team
- Provided friendly and knowledgeable assistance to customers
- Processed online orders for pickup and shipping by organizing and assembling items from store's inventory

Inventory Management/Customer Service   Feb 2020 – Dec 2021
BestBuy
- Monitored and updated inventory data, tracking stock levels to prevent shortages and overstock situations
- Used my existing knowledge of products to assist customers with questions on specifications
- Fulfilled online orders through maintaining high order accuracy and low completion times

PROJECTS

Mav Health | *Java, Android Studio, Firebase*   Jan 2023 – May 2023
- Designed and implemented the authorization flow for an Android application that ensures a user's medication, diet, and vital signs are directly tied to their account
- Created a notes component utilizing Firestore's real time database to seamlessly store and retrieve personal information
- Applied the Waterfall software development process in a team of 4 and utilized version control for development of components

Wrapify | *React, Express, OAuth*   Aug 2023 – Present
- Wrapify is a full-stack single page web application that utilizes Spotify's public API to provide users with a year round display of their personalized listening analytics
- Implemented Spotify's OAuth flow using a backend constructed with Flask to filter data retrieved from API calls and ensure security of access tokens
- Created a responsive frontend UI design using React and Bootstrap to provide users with a presentation of their listening statistics over a chosen period of 4 weeks, 6 months, or 1 year

Traffic Counter | *OpenCV/Computer Vision, C++, CMake*   Jul 2023 – Aug 2023
- Developed a video processing pipeline in OpenCV that counts the number of cars that have traveled east and west through a particular stretch of road
- Implemented a background subtraction method to distinguish the moving cars in the foreground from the static background
- Created activation zones for each lane that would detect if the center of mass of a vehicle had passed a particular boundary in order to count it

TECHNICAL SKILLS

Programming Languages: C/C++, Python, JavaScript, Java, SQL, HTML/CSS
Frameworks: React, Next.js, Node.js, Express.js, Flask
Libraries: OpenCV/Computer Vision, NumPy, Matplotlib, Selenium, SciPy, Mongoose, Jest, MongoDB
Technologies and Tools: Agile, Scrum, Waterfall, Object-oriented Design, AWS, OAuth, MySQL, Git, GitHub, Postman, Firebase, Docker, Unix/Linux, Windows