

Movie Recommendation Project Deliverable #1

Team Name: Reel Picks

CSC468 Introduction to Cloud Computing

Dr. Linh B. Ngo

Garrett Crowner, Brook Kassa, Nicholas Resto

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Garrett D. Crowner

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<https://github.com/GarrettCrownr><https://www.linkedin.com/in/garrett-crowner-365671338/>**Education:**

West Chester University of Pennsylvania, Honors College	2022 - 2026
Bachelor of Science, Computer Science, GPA: 3.643	
Computer Security Certificate Track	
Minor in Spanish	
Minor in Civic and Professional Leadership Development (Concentration in STEM)	
University of Barcelona	2024
Advanced Spanish coursework	

Awards:

Council of Trustees Scholarship - full tuition	2022-2026
Dean's List	2023, 2024
Lake Heritage Fishing & Women's Club Award	2022
University Student Housing Honors Scholarship	2022
Realtors Association of York & Adams Counties Scholarship	2022

Scholarly Activities and Affiliations:

Honors Student Association	2022 - 2024
Travel Abroad Term	2024
Student Representative for Honors College Modernization	2024
West Chester Competitive Programming Contest	2023

Relevant Projects

- Linux System Administration Project - Linux administrator tasks and procedures
- Genetic Programming Project - Pseudo-randomly generated machine learning self-evaluating expression-tree
- Designing a security policy for a university structured organization

Community Service and Volunteerism:

North Star of Chester County	2024
- Local 501(c)(3) non-profit working with ALICE families: grant proposal, fall fundraiser, volunteer events, bake sale, etc.	
Adopt-a-Block	2022 - 2023
- Community-based trash clean up program	

Employment:

Mela Kitchen	2020 - 2023
- Food service	
- Dishwashed, hosted, served	
- Proved trainability and upward mobility	
- Familiarized with customer service and customer relations	
Gettysburg Benefits Administrators	2023 - 2024
- Quality Assurance Analyst	

- Quality reviewer for both build-from-scratch and re-enrolls for insurance enrollment websites
- Increased percentage of first-pass tests
- Entrusted with process improvement for quality analysts
- Working with Salesforce inbound requests
- Familiarity with insurance vocabulary, concepts, carriers, brokers
- *Case Builder*
 - Trained as a case builder, building insurance enrollment websites
 - Familiarized with the product development process
 - Worked in a technical environment
 - Worked with a technical team

Kelly Benefits

2024 - present

- *Quality Assurance Analyst*
 - Quality Review Analyst for build-from-scratch and re-enrolling insurance enrollment websites
 - Helped train new quality analysts for the role
 - Entrusted with process improvements and system engineering
 - Working within a formal corporate structure
 - Weekly improvement and performance reports
- *Case Builder*
 - Trained as a case builder, building insurance enrollment websites
 - Reintroduced to the product development process
 - Continued working in a technical environment
 - Continued working with a technical team
 - Weekly improvement and performance reports

Special Skills and Certifications:

Programming Languages: Java, C, C++, Bash Script, HTML, CSS, MATLAB, Haskell

Operating Systems: MacOS, Windows, Linux (Ubuntu and Manjaro Distributions)

Other Tools: Selerix, WireShark, Nmap, Cisco-Packet Tracer, SPSS, Git, GDB, Office365

HIPPA Certified, CITI Certified

References Available Upon Request

NICHOLAS RESTO

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Education

West Chester University of Pennsylvania, West Chester, PA

Bachelor of Science in Computer Science | May 2026

Minor in Women's and Gender Studies | December 2025

- GPA: 3.3

Relevant Experience

Geek Squad Advanced Repair Agent | February 2025 – Present

Best Buy, Downingtown, PA

- Resolve complex software and hardware repairs efficiently and with top-level accuracy.
- Complete in-depth malware removal and operating system restoration including BSOD recovery.
- Ensure client satisfaction and QoS through accurate documentation and execution of repairs.
- Communicate with clients over the phone and in person to reveal diagnostic discoveries and make recommendations for protecting their devices and resolving issues.
- Navigate complex file/data recoveries and transfers.

Geek Squad Consultation Agent | December 2023 – February 2025

Best Buy, Downingtown, PA

- Greet and assist clients, actively listen to their needs and provide recommendations/solutions based on their requirements
- Explain product features, specifications, and provide demonstrations to clients
- Assist clients with the setup, configuration, and troubleshooting of their devices
- Perform necessary repairs to client devices in a timely manner

Geek Squad Apple Authorized Service Provider | December 2023 - Present

Best Buy, Downingtown, PA

- Offer troubleshooting on Apple products like Mac, iPhone, iPad, Apple Watch, AirPods, and software applications
- Diagnosed and repaired complex hardware and software issues on Apple devices in compliance with Apple Authorized Service Provider (AASP) standards.

Additional Experience

Store Support Associate | November 2022 – December 2023

Raymour & Flanigan, Exton, PA

- Provide support in managing inventory control and optimizing related processes to ensure efficiency and accuracy.
- Assist with the loading and unloading of furniture trailers, ensuring safe handling and proper organization of items.
- Expertly assemble a variety of new furniture pieces, following guidelines to ensure quality and durability.

Dishwasher | March 2019 – August 2022

Estrella Tacos Y Mas, Downingtown, PA

- Cleaned, sanitized, and restocked dishes, glassware, utensils, and pots, operating machines to company and manufacturer specifications, and using proper levels of detergent and sanitizer.
- Maintained a safe, clean environment in alignment with sanitation guidelines by routinely cleaning and organizing the stockroom, storage areas, workstation, and other kitchen areas as needed.

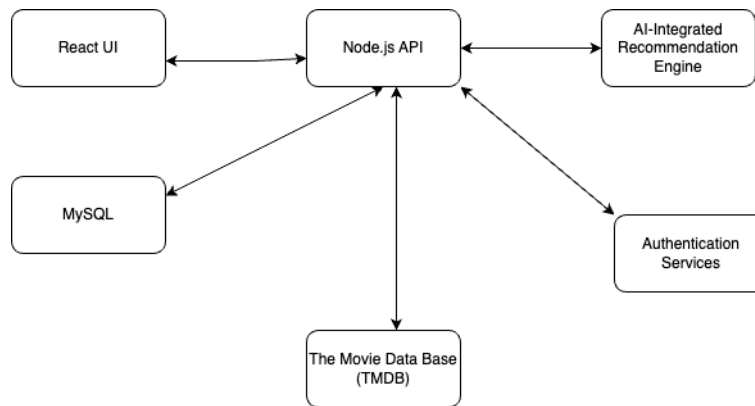
Skills

- Skilled in assembling, troubleshooting, diagnosing, and repairing computer systems, ensuring optimal performance and reliability.
- Proficient in multiple programming languages, including Java, C, Haskell, Swift, and Python, with experience in software development.
- Experienced in Apple iPhone repair, performing diagnostics, component replacements, and software restorations following industry best practices.
- Well-versed in operating systems, including macOS, iOS, Windows 10/11, and foundational Linux, with the ability to configure, maintain, and troubleshoot system-related issues.
- Experienced in 3D printing, including model preparation, slicing, printer calibration, troubleshooting, and post-processing to ensure high-quality prints.
- Skilled in home networking setup and maintenance, including configuring routers, troubleshooting connectivity issues, and optimizing network performance for reliable and secure connections.

Technical Report

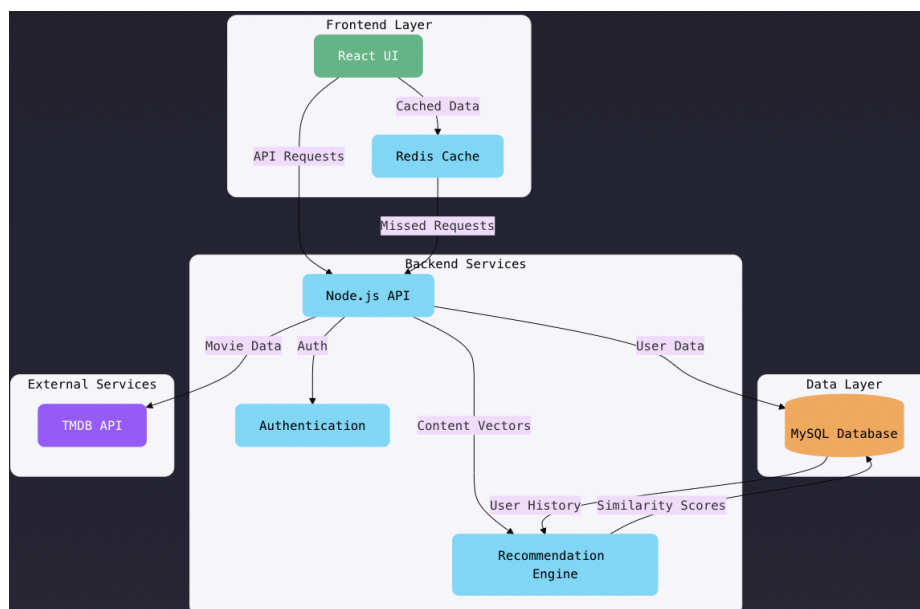
Chapter 1:

Our team's vision is to create an interface in which people will be recommended movies that they may enjoy. We plan to have a user interface that users can interact with, a database of movies to be recommended, and AI-integration to power recommendations. Potentially we will add a feature where users can log past movies they enjoyed to get updated recommendations. If this is the case, we will also need to implement some type of authentication services. Our high level architecture is a user interface, a database, and a recommendation engine, and potential authentication services, with Node.js' API to ensure proper communication between all three.



Chapter 2:

We plan to use React UI as our user interface. React will call the Node.js API based on user requests. Node.js will reach out to our external database (The Movie Database [TMDB]) so we have a list of potential movie recommendations. Node.js will also communicate with our AI-powered recommendation engine, and MySQL so that we are able to manipulate and store any user data. If we do decide to use MySQL to store the user data, we will also need an authentication service. We plan to create some criteria for similarity scores between what the user specifically asks for and potentially past watched films.



References