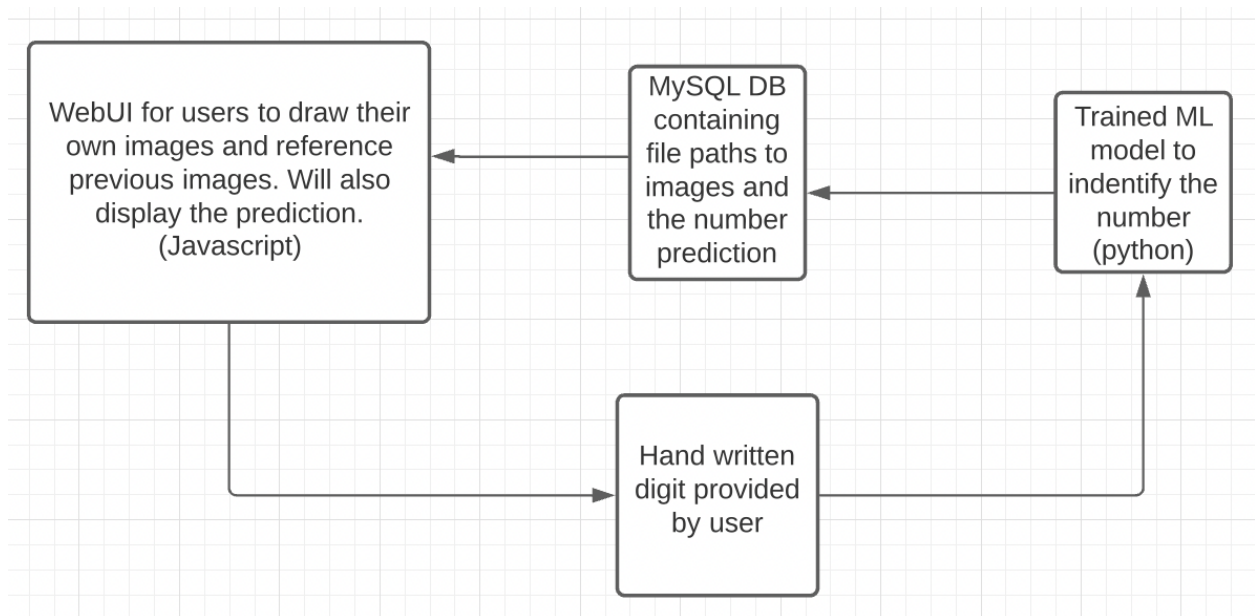


# The Vision of Group One

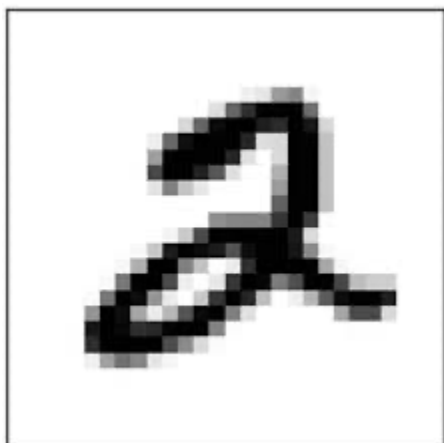
Justin Baksi, Shaun Derstine, Dylan Aegbuniwe, Shepherd Shenjere, Justin Ching

## Chapter 1



## Chapter 2

Our group's mission is to deploy a machine learning agent that can identify hand-written digits. We will use Python's machine learning libraries to train a model that can identify new hand-written digits provided by the user from the user interface. We will have the user draw their own image using our UI and our program will format it so that it can be properly identified by our agent. In the UI we will also allow the user to view previous images that were identified. We will store the images in the CloudLab machine and the filepath to the image will be stored in a MySQL database. This is how our User Interface will access the image. The database will also store the predicted number and if the prediction was correct or incorrect. Below is an example of an image in which our machine learning agent will be trained from.



## Resumes

# Shaun Derstine

434 S Walnut Street | West Chester, PA | (267) 772-9418 | [shaunderstine@gmail.com](mailto:shaunderstine@gmail.com)

### Education

**West Chester University of Pennsylvania**, West Chester, PA  
Bachelor of Science in Computer Science, Graduation: May 2022  
GPA: 3.692

### Work Experience

*Tutor* | January 2020 – May 2020

West Chester University of Pennsylvania | West Chester, PA

- Coach students in introductory and intermediate level computer science courses
- Help students prepare for upcoming assessments and assignments
- Enforce sustainable and effective study habits
- Work with both individual and groups of students
- Coordinate regular sessions by corresponding through email and phone calls

*Laborer* | December 2018 – January 2019

Swartley Bros Engineers Inc | Souderton, PA

- Moved and maintained warehouse inventory
- Arranged materials on palettes to be placed on shelves
- Constructed new industrial shelving and modified existing ones

*Laborer* | June 2017 – August 2018

Upper Montgomery Joint Authority | Pennsburg, PA

- Maintained plant and accompanying facilities
- Tasks involved heavy lifting and manual labor outdoors
- Outdoor work involved mowing lawn, trimming trees, and mulching

### Activities

*Member of Computer Science Club* | September 2018 – Present

West Chester University of Pennsylvania | West Chester, PA

- Regular meetings discussing upcoming computer science related events and news

### Skills

- Excellent communication and group management skills
- Works well with others
- Ability to concisely execute both verbal and written commands
- Strong attention to detail

## Justin Ching

justinching03@gmail.com • (484) 949-4591 • Downingtown, PA

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### WORK EXPERIENCE

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#### West Chester University IS&T Help Desk

May 2021 – Present

*Help Desk Consultant*

*West Chester, PA*

- Provided assistance to students, faculty, and staff with technology-focused services, such as resolving network and software errors, providing students with the necessary information for transcript requests, aiding faculty and staff with equipment loans and purchases, and installing various software and tools onto approved devices.
- Performed basic troubleshooting and repairs for faculty and staff with university-provided equipment, primarily working with Lenovo ThinkPad laptops, MacBook Airs and MacBook Pros, Lenovo ThinkPad docking stations, and a variety of monitors.

#### Next Generation Technologies, Inc.

May 2019 – August 2019

*Intern*

*Philadelphia, PA*

- Updated the user interface of the company's website using PHP in conjunction with Joomla, while adding additional functionality to domain purchases and DNS name changes by integrating OnlineNIC API.
- Maintained the company's database using JDatabase and SQL, reorganizing how data was stored and what information could be read from the various databases.

#### Target Corporation

Sep. 2019 – Present

*Guest Advocate*

*Exton, PA*

- Assisted customers with locating products within the store, processing returns, exchanges and online orders, pushing new items from the storage area and backstocking any items that had no store location or was unable to go within their designated area.
- Trained new team members across the various front of store roles, focusing on getting new members adjusted to the store's service desk, where item exchanges, returns, and online orders occur, and guiding those with night shifts with the store's closing procedures.

### EDUCATION

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#### West Chester University

Current Student

*Pursuing Bachelor's Degree in Computer Science*

*West Chester, PA*

- 3.83/4.00 GPA

### SKILLS

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- **Skills:**
  - **Technical Skills**
    - Proficient with: Java • C++ • JavaScript with Node.js and MongoDB • Microsoft Office Suite (Excel • Word • PowerPoint)
    - Familiar with: Python • C • PHP • SQL • HTML • CSS5
  - **Soft Skills**
    - Public Speaking • Written communication • Resourcefulness • Troubleshooting

# SHEPHERD SHENJERE

Phone: 215-873-3873  
shenjeres@outlook.com

Folsom, PA  
[linkedin.com/in/shepherd-shenjere-12974b15b](https://www.linkedin.com/in/shepherd-shenjere-12974b15b)

## EDUCATION

**West Chester University**  
*Bachelor of Science in Computer Science*  
Cumulative GPA: 3.63

**West Chester, PA**  
May 2022

**NSA Computer Security Certificate**  
May 2022

**Delaware County Community College**  
*Associate in Applied Science, Network Engineering*  
2019  
Cumulative GPA: 3.50

**Media, PA**  
May

## RELEVANT COURSEWORK

Computer Science I, II, III  
Discrete Mathematics  
Data Structures & Algorithms  
Computer Security & Ethics  
Cloud Computing

Software Engineering  
Computer Systems  
Foundations of Computer Science  
Data Communications & Networking  
Programming Language Concepts/Paradigms

## SKILLS

**Programming Languages:** Python, Java, Haskell

**Certifications:** Certified Test Out Server Pro 2016: Install and Storage, Install and Configure

**Tools:** Microsoft Excel, Microsoft Word, Microsoft PowerPoint

## EXPERIENCE

**Randstad at Vanguard**  
*Financial Processor*

Malvern, PA  
September 2019-June 2021

- Processed client's transaction requests and reviewed transactions for accuracy, completeness, and adherence to all internal and external regulations
- Partnered with Vanguard Associates in working through complex processing issues to ensure timely completions
- Developed a working knowledge of Vanguard's processing systems, group policies and procedures

**TEKsystems at Wallingford School District**  
*Helpdesk Support Specialist*

Wallingford, PA  
June 2019-September 2021

- Troubleshot issues for school-approved software packages including Exchange and Google Apps for Education
- Software installations and upgrades, firmware updates, virus scans, end-point updates
- Identified, researched, and resolved technical problems quickly and efficiently

**Delaware County Community College**  
*Helpdesk Support Intern*

Media, PA  
January 2019-May 2019

- Provided remote troubleshooting through diagnostic techniques and pertinent questions
- Imaged computers, installed and updated new software
- Assembled new machines and disassembled old machines
- Provided accurate information on IT products or services

## TECHNICAL PROJECTS

**Practice-A-Thon**

January 2022– Present

*Tackle Data Structure*

- Converted sorted array to Binary search tree
- Designed most recently used queue
- Formed arrays by concatenating subarrays of another array

## AWARDS & ACHIEVEMENTS

National Technical Honor Society, 2018- Present

Transfer Recognition Scholarship, 2021–Present



# Dylan Aegbuniwe

(717) 825-5357 • 601 Glen Arbor Court, Seven Valleys, PA 17360 • [daegbuniwe@gmail.com](mailto:daegbuniwe@gmail.com)

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## EDUCATION

### **West Chester University of Pennsylvania**

*College of Sciences and Mathematics* • Bachelor's Degree in Computer Science

Expected Graduation: May 2022 • Current GPA: 3.515

## SKILLS

- Proficient in multiple computer programs
  - Adobe products (Premiere Pro, Acrobat, After Effects)
  - Microsoft Products (Excel, Word, PowerPoint, etc.)
  - Different coding terminals (JGrasp, Netbeans, Visual Studio, Powershell)
- Experienced in Java and C programming, learning Python
  - GitHub link with experience samples: <https://github.com/DylanAegbuniwe>
- Excel in team management and cooperative roles
- Experienced in videography and film work

## WORK EXPERIENCE

### **Rutter's • Loganville, PA • Team Member – Deli** • June-October 2017

- Made and prepared food in the deli

### **Team Member – Retail**

- Provided quick customer service and performed maintenance
- Performed on the store, cleaning areas of the shop the store floor and bathrooms

### **Wal-Mart • East York, Pennsylvania • Front-End Host** • June 2018-January 2020

- Provided customer service and checked out customers at cash registers and self-checkout registers in one of the largest Wal-Mart stores in Pennsylvania
- Trained front-end hosts

## INVOLVEMENTS

### **Dallastown Football • 2013-2016 • Player**

### **Dallastown Boys Volleyball • 2015-2018 • Player and Manager**

- Assisted coaches and players with practice and supported the team before, during, and after games throughout each year

# Justin Baksi

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Aston, PA  
215-908-4626  
JB904055@WCUPA.edu

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## Education

West Chester University  
Bachelor of Science, Computer Science  
Dean's List, GPA: 3.5

West Chester, PA  
Graduation: May 2022

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## Experience

### Prime Technologies Inc. / Software Engineer Intern

October 2021 - PRESENT, Exton, PA

- Maintain AWS web application using Java and Grails with Gradle.
  - Deploy client software on EC2 instances.
  - Set up Route 53 domains for each client.
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## Technical Skills

- Proficient Object-Oriented Programming in Java, Python, C#, Groovy
  - Familiar with C/C++, SQL.
  - Machine Learning in Python.
  - Big Data Engineering with Python.
  - Experience with AWS (EC2, Route 53, SSH).
  - Windows, Linux.
  - Git
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## Projects

- Used Support Vector Machine to predict survivors of the Titanic (Kaggle dataset) with 75% accuracy.
  - Used min-hashing algorithm to determine similarity between presidential speeches.
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## Relevant Coursework

Data Structures and Algorithms, Software Engineering, Advanced Topics in Object-Oriented Programming, Computer Systems, Database Management, Big Data Engineering, Cloud Computing (Spring 2022)

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## Hobbies/Activities

WCU Computer Science Club, Vice-President of the WCU Outdoors Club, building gaming PCs, investing, guitar playing, astronomy, golf, ice hockey