

# KOBE COLEMAN

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## EDUCATION

**Allegheny College - Meadville, PA**  
**Bachelor of Science in Computer Science**  
**Summa Cum Laude**

**Graduation Date: May 2023**

**GPA: 3.9/4.0**

**Senior Thesis:** “*Digital Prophet: Predictive Analytics of Time Series Datasets Using Hyperparameter Optimization*”

- Performed predictive analytics on time series data sets with neural networks to identify the most optimal hyperparameters
- Utilized Optuna package with PyTorch for running simulations of long short-term memory models

### Distinguishing

<i>Computer Science Outstanding Junior Major Prize</i> (Awarded for exceptional academic achievement and contribution to dept.)	<b>May 2022</b>
<i>Computer Science Faculty Prize</i> (Awarded for exceptional academic achievement and contribution to dept.)	<b>May 2023</b>
<i>Distinguished Alden Scholar</i> (Academic honor for maintaining a 3.80 or higher GPA)	<b>August 2019 - May 2022</b>
<i>Trustee Scholar (Merit-based award)</i>	<b>August 2019 - May 2023</b>
<i>Zingale Big Idea Competition Winner</i> (Awarded for winning a business pitch competition)	<b>May 2023</b>

### Relevant Coursework

Artificial Intelligence, Software Engineering, Computational Expression, Algorithm Analysis, Data Analytics, Operating Systems

## SOFTWARE DEVELOPMENT EXPERIENCE

### Application Developer - BNY

**August 2023 - June 2025**

- Ensured proper access to third-party vendor applications that pertain to internal audit work, particularly Teammate+ and ExtraView
- Utilized SQL Server to fetch data from the internal audit portal to open projects in Teammate+, perform inserts of issue records in the Extraview database via the Teammate+ API, and perform updates of individual layouts in ExtraView
- Simplified the issue management process in ExtraView by reducing the number of possible record statuses, reducing the ticket count of requested field changes by eighty percent
- Constructed and customized reports of ExtraView records that are presented to the audit committee
- Modified the archive status and/or auditable entity of audit processes in Teammate+ so they are accurately reflected in the internal audit portal
- Implemented back-end logic to dynamically control component visibility within ExtraView, strengthening role-based access control and user experience

### Technical Leader - Computer Science Dept., Allegheny College

**September 2021 - May 2023**

- Successfully assisted ten to fifteen students weekly in completing class activities and assignments
- Provided exceptional support to students during weekly office hours
- Contributed to the development of instruction and curriculum by submitting detailed after visit summaries to professors
- Attended meetings to receive performance feedback and provide updates on the overarching subjects of student requests

### Software Engineer Intern - Acute Precision Aerospace Inc.

**September 2021 - December 2021**

- Developed a .NET library that streamlined the Work Instructions system by managing a repository of jobs relayed to operators
- Successfully simulated the Work Instructions system by mocking and manipulating a database using the LINQ construct
- Added event sourcing for every change to the state of the database, recording the change type, the object of the change, and the time the change was executed
- Ensured high-quality code by performing unit testing with the NUnit framework

### Capstone Project Intern - NetApp

**January 2021 - May 2021**

- Improved the user experience of a Swagger UI by implementing front-end data search and query features
- Significantly reduced endpoint search by filtering endpoints and models in real-time
- Optimized endpoint ranking by using functions from the Immutable.js library to rank endpoints based on regular expression matches in the path and description of the endpoint

## SKILLS

**Programming Languages :** Python (*advanced*), C# (*intermediate*), Java (*intermediate*), R (*intermediate*), Javascript (*intermediate*), SQL (*intermediate*)

**Deep Learning Frameworks:** TensorFlow (*intermediate*), PyTorch (*intermediate*), Optuna (*working knowledge*)

**Programming Libraries:** OpenCV (*working knowledge*), Scikit (*working knowledge*), Numpy (*intermediate*), Pandas (*intermediate*), Typer (*beginner*), Immutable.js (*beginner*), Matplotlib (*beginner*), React.js (*beginner*)

**Configuration Management:** Git (*advanced*), Docker (*intermediate*)

**Tools:** Microsoft Copilot (*advanced*), Poetry (*advanced*), Pytest (*advanced*)

**Web Frameworks:** Streamlit (*beginner*), Netlify (*beginner*), Blazor (*intermediate*), ASP.NET (*intermediate*), Angular (*intermediate*)