

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

Distinguishments

Computer Science Outstanding Junior Major Prize (Awarded for exceptional academic achievement and contribution to dept.) **May 2022**

Computer Science Faculty Prize (Awarded for exceptional academic achievement and contribution to dept.) **May 2023**

Distinguished Alden Scholar (Academic honor for maintaining a 3.80 or higher GPA) **August 2019 - May 2022**

Trustee Scholar (Merit-based award) **August 2019 - May 2023**

Zingale Big Idea Competition Winner (Awarded for winning a business pitch competition) **May 2023**

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 - Acutec 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
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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*)