

# Amaan Barmare

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## EDUCATION

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### Pennsylvania State University

*Bachelor of Science in Computer Science, Minor in Economics*

State College, PA

*Graduate Date: May 2025*

## EXPERIENCE

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### Software Engineer Intern

June 2024 – Aug 2024

*Augle AI*

*Remote*

- Designed and implemented a web scraping tool using Scrapy to extract product details and technical data from web pages, enhancing data retrieval and analysis
- Configured MongoDB for efficient data storage, enabling seamless data management and access for analysis
- Optimized the scraping process by implementing custom spider settings, such as download delays and auto-throttling, which improved scraping efficiency by 40%
- Utilized technologies such as Scrapy Selenium, Python, and MongoDB, resulting in an efficient solution for extracting technical product data

### Learning Assistant

Aug 2023 – Dec 2023

*Pennsylvania State University*

*State College, PA*

- Hosting weekly LA sessions for MATH 141 ( Calculus 2) twice a week to reinforce core concepts, troubleshoot challenges, and provide real-world applications of calculus principles
- Addressing individual student problems to enhance their problem solving skills and promote a deeper understanding of course materials
- Facilitating interactive worksheet sessions with the professor once a week to reinforce key concepts, enhance problem-solving skills, and foster a dynamic learning environment

### Software Engineer Intern

May 2023 – Aug 2023

*Augle AI*

*Remote*

- Implemented and optimized data processing modules for images, video, and point clouds using Python and related libraries
- Developed functionalities for real-time notifications and video streaming using SMTP and RTCP
- Engaged in collaborative software development, contributing to team-driven solutions and system integrations
- Utilized technologies such as Python, Flask, OpenCV, MongoDB, and PyTorch to enhance system capabilities
- Enhanced system efficiency by 30% through improved inspection processes and actionable insights

## PROJECTS

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### Smart Healthcare System | *React, Flask*

- Developed a full-stack healthcare application using Flask (backend) and React (frontend), integrating machine learning models for early disease detection and risk assessment of diseases.
- Utilized Chart.js and Matplotlib to create interactive data visualizations, improving healthcare professionals' ability to assess patient risk and make informed decisions.
- Implemented Scikit-learn machine learning algorithms and handled large healthcare datasets with Pandas (NumPy) to deliver accurate predictions for disease likelihood.
- Optimized API communication using Flask-CORS for secure data transfer, and designed a responsive, component-based interface with modular CSS in React for a seamless user experience.

### Amazon Stock Monitor Bot | *Javascript, Node.js*

- Developed an Amazon stock monitoring bot that provides real-time product availability updates, assisting users in making timely purchasing decisions
- Enhanced user experience by integrating real-time notifications and alerts via Discord
- Designed and implemented a user-friendly interface for efficient tracking of stock data updates
- Utilized technologies such as Node.js and Javascript and employed libraries including AXIOS, GOT, and discord-webhook-node for optimal data retrieval and processing

## TECHNICAL SKILLS

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**Languages:** Python, Java, C/C++, SQL (Postgres), JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Flask, MongoDB, OpenCV, PyTorch, NumPy, Scrapy Selenium, Scikit-learn

**Developer Tools:** Amazon Web Services, Git, Docker