Amaan Barmare

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Portfolio Website: amaanbarmare.netlify.app

EDUCATION

Pennsylvania State University   State College, PA
Bachelor of Science in Computer Science, Minor in Economics   *Graduation Date: May 2025*

EXPERIENCE

Software Engineer Intern   June 2024 – Aug. 2024
Augle AI   *Remote*
- Engineered a scalable web scraping pipeline to extract 1,000+ product details and technical specifications from two industrial websites, improving data retrieval efficiency by 40% using Scrapy, Selenium, and Python.
- Developed a MongoDB-based data storage solution, enabling seamless storage and retrieval of structured technical product data, facilitating downstream AI chatbot integration.
- Optimized the scraping process by configuring custom spider settings, including auto-throttling and dynamic request delays, to navigate deeply nested categories and subcategories, ensuring comprehensive data extraction.

Learning Assistant   Aug. 2023 – Dec. 2023
Pennsylvania State University   *State College, PA*
- Hosted weekly Learning Assistant sessions for MATH 141 (Calculus II) twice a week, reinforcing core concepts, troubleshooting challenges, and demonstrating real-world applications of calculus principles through interactive worksheet sessions.

Software Engineer Intern   May 2023 – Aug. 2023
Augle AI   *Remote*
- Optimized an automated machine vision system that analyzed screws for defects, increasing inspection efficiency by 30% through the development of real-time image and video processing modules using Python, OpenCV, and PyTorch.
- Designed and implemented a Flask-based real-time notification system using SMTP and RTCP, enabling instant alerts on faulty screw detections, reducing response time for quality control.
- Developed and integrated a database-driven analysis pipeline in MongoDB, efficiently managing and processing 200+ images per video scan to assess screw integrity.

PROJECTS

NextHire | *MERN Stack* | nexthire-kgbf.onrender.com
- Developed NextHire, a full-stack job portal using the MERN stack (MongoDB, Express.js, React.js, and Node.js), enabling seamless job search, application tracking, and recruiter management.
- Implemented JWT-based authentication for secure login, session management, and persistent user data, enhancing platform security and usability.
- Built a responsive and dynamic UI with React, Redux Toolkit for state management, and TailwindCSS, ensuring an optimized experience across devices.
- Utilized Cloudinary for efficient media storage and Multer for file uploads, supporting user profile and company logo management.

Amazon Stock Monitor Bot | *JavaScript, Node.js* | github.com/AmaanBarmare/Amazon-Stock-Monitor-Bot
- 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.
- 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

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML5/CSS
Frameworks: React, Node.js, Express.js, Angular, Flask, Next.js
Developer Tools: Git, Docker, Google Cloud Platform, AWS, VS Code, PyCharm, IntelliJ
Libraries: Redux, Shadcn UI, Tailwind CSS, Firebase, OpenCV, PyTorch, NumPy, pandas, Matplotlib, Scikit-learn, Scrapy, Selenium

HONORS & EXTRACURRICULAR ACTIVITIES

Dean's List: Spring 2024
Clubs: Google Student Developer Club, Nittany Data Labs (NDL), Nittany AI Student Society