ASHA MWEENE

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EDUCATION

Point Park University | Pittsburgh, PA   Expected Graduation: *May 2025*
Bachelor of Science in Computer Science
Coursework: Database Systems, Introduction to Programming, Data Structures, Algorithms, Business Analysis, Advanced Programming, Network and Security, Cloud Computing, Web Applications Development, Mobile App Development, Object Oriented Programming

SKILLS

Languages : JavaScript, Python, Java, PHP, SQL (PostgreSQL, MySQL), HTML, CSS
Technologies & Frameworks : React, Node.js, Next.js, Rest APIs, Firebase, HTTP, TCP/IP, OAuth 2.0, TensorFlow, Keras, Chart.js, NumPy
Tools: Git/ GitHub, Postman API, Dash, VS Code, Matplotlib, Visual Studio, Vercel, Azure DevOps Pipelines

EXPERIENCE

Computer Science and Mathematics Tutor   *Oct 2023 – Current*
  Point Park University, Center for Student Success
- Delivered technical mentorship in programming (JavaScript, Python, Java, SQL), data structures, and algorithms, helping students refine their problem-solving skills.
- Provided structured guidance on software development best practices, improving students' understanding of object-oriented programming and system design.
- Designed custom learning plans that increased students' proficiency, demonstrating strong communication and adaptability in an academic setting.

Software Engineering Intern   *Jan 2023 – Apr 2023*
  Sunfresh Food Service

- Designed and developed an enterprise-level web application for inventory and order management, improving operational efficiency by 30%.
- Built and integrated RESTful APIs, enabling seamless data exchange between frontend and backend services.
- Collaborated in a full-stack environment, implementing scalable solutions using React, Node.js, and PostgreSQL.
- Worked closely with stakeholders to align technical solutions with business objectives, showcasing flexibility and resilience in an evolving work environment.

PROJECTS

Secure Authentication with Azure AD B2C   *Jan 2025 – Feb 2025*
    Tech Stack: *React, Azure AD B2C, MSAL.js, Node.js, CSS*

- Developed and implemented a secure authentication system using Azure AD B2C, improving login reliability by 25% through cloud-based identity management.
- Integrated OAuth 2.0 authentication flows with MSAL.js, ensuring 99.9% authentication success for Microsoft SSO users.
- Configured user flows and authentication policies, reducing authentication errors by 30% and enhancing user security.
- Secured API communication and session management within a Node.js backend, decreasing unauthorized access attempts by 20%.
- Optimized authentication performance, cutting login latency by 15%, improving user experience across multiple platforms.

EventTracker: Event Management System with Chatbot and Metrics Tracking   *Sep 2024 – Dec 2024*
    Tech Stack: *PHP, JavaScript, HTML, CSS, PostgreSQL, PDO, Chart.js*

- Developed EventTracker, a full-stack event management system, incorporating an AI chatbot for automated responses.
- Designed a real-time analytics dashboard using Chart.js, allowing event organizers to track key performance metrics and optimize decision-making.
- Built a secure authentication module with role-based access control, ensuring data privacy and security.

Image Classification using Convolutional Neural Networks (CNN)   *April 2024 – May 2024*
    Tech Stack: *Python, TensorFlow, Keras, NumPy, Matplotlib*

- Engineered a high-performance CNN model for image classification using the CIFAR-10 dataset, achieving 85%+ accuracy in detecting objects.
- Applied deep learning techniques, optimizing the model through hyperparameter tuning and advanced training strategies.
- Visualized model performance with Matplotlib, providing insights into model convergence and optimization strategies.

PROFESSIONAL AFFILIATIONS

- Member, Pittsburgh Technology Council   *Aug2024–Present*
- Member, ColorStack   *Feb 2024–Present*
- Member, Rewrite the Code   *Oct 2023–Present*