

ASHOK K C

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Education

Northern Kentucky University

Aug 2021 – May 2025

Bachelor of Science in Information Technology, GPA: 3.82

Highland Heights, KY

Technical Skills

Languages: Python, Java, JavaScript, MySQL, C/C++, PHP, HTML, CSS, Bootstrap

Developer Tools: VS Code, Eclipse, Google Cloud Platform

Technologies/Frameworks: AWS, Azure, React, Google Cloud, Database, Docker

Experience

Kentucky Center for Mathematics

March 2022 – March 2023

Full-Stack Web Developer

Highland Heights, Kentucky

- Designed and developed multiple interactive events on KCM's official website, enhancing user engagement and providing valuable resources to the mathematics education community.
- Spearheaded the creation, management, and maintenance of the center's database, optimizing data retrieval and storage processes. Implemented robust security measures to protect sensitive information.
- Offered IT support to staff and users, promptly resolving technical issues and inquiries. Leveraged expertise in PHP, HTML, CSS, JavaScript, Bootstrap, and SQL to improve and streamline the online software used for mathematics education.
- Explored ways to visualize and send a daily report of test results to team members using HTML, Javascript, and CSS.

Northern Kentucky University

May 2023 – August 2023

Research Assistant

Highland Heights, Kentucky

- Conducted in-depth literature reviews to identify trends and gaps in cloud computing research, contributing valuable insights to the development of research proposals and project directions.
- Assisted in designing and executing experiments to evaluate the performance and scalability of cloud-based applications, utilizing AWS, Azure, Google Cloud, and OpenStack for setting up and managing cloud environments
- Collaborated closely with interdisciplinary teams, including senior researchers, to develop innovative cloud computing algorithms and optimization techniques, fostering a culture of innovation and knowledge sharing within the research lab.

Python Teaching Assistant

January 2022 – May 2022

Research Assistant

Highland Heights, Kentucky

- Provided personalized Python programming instruction to students of varying skill levels, tailoring lessons to accommodate both beginners and advanced learners, resulting in improved comprehension and coding proficiency.
- Created engaging and practical Python programming exercises and projects, fostering hands-on learning experiences that enhanced students' problem-solving skills and application of Python concepts.
- Monitored students' progress and adjusted teaching methods, accordingly, addressing individual challenges and promoting a collaborative learning environment that led to increased confidence and competence in Python programming.

Projects

Cloud-Optimized Application Deployment | Amazon Cloud Console, EC2

December 2023

- Deploying applications to Amazon ECS (Elastic Container Service) utilizing EC2, Docker, ECR (Elastic Container Registry), and Fargate.
- Configuring Load Balancers and harnessing AWS services to amplify scalability, reliability, and manageability of applications.
- Optimizing deployment pipelines by leveraging ECR as a dependable container registry.

Doc Viewer | Scripting, Python, Linux

May 2023

- DocView is a comprehensive script designed to address security concerns within an organization's network by monitoring and responding to file modifications caused by malicious activities.
- Developed the Spring 2023 CIT 383 Scripting 1 course, DocView aims to empower system administrator interns with tools to identify compromised files, notify relevant personnel, and take necessary actions to secure sensitive data.

Leadership / Extracurricular

Presidential Ambassadors

Spring 2022 – Present

Northern Kentucky University

- The Presidential Ambassadors (PAs) at Northern Kentucky University (NKU) are a select group of students chosen based on academic excellence, community involvement, and dedication to promoting NKU.).
- PAs play a vital role in campus life, volunteering their time to support various university events and activities.