

# ARK DUTT

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## EDUCATION

University of Wisconsin-Madison

May 2025

Bachelor of Science in Computer Science and Data Science | Minor in Economic Analytics

**Relevant Coursework:** Data Structures and Algorithms, Computer Architecture, Machine Organization and Programming, Data Science Programming, Linear Algebra, Discrete Mathematics, Parallel & Throughput programming

## TECHNICAL SKILLS

- **Programming Languages:** Java, Python, R, C, C#, HTML, CSS, JavaScript, SQL, Swift
- **Libraries/Frameworks:** Pandas, NumPy, Flask, Keras, TensorFlow, Tailwind CSS, Next.js, React.js, Angular.js, .NET
- **Tools:** Docker, Kubernetes, Jira, GitHub, Slack
- **Certifications:** AWS Certified Cloud Practitioner, Machine Learning Specialization by DeepLearning.AI

## WORK EXPERIENCE

Software Developer

Feb 2024 – present

Wisconsin Center for Education Research - Madison, WI

- Contributed to the ongoing ONPAR research project with an Agile team of 6, focusing on enhancing an educational technology platform using a robust tech stack including C#/.NET, SQL Server, and AngularJS.
- Developed an automated scoring report system for 100+ science lessons by integrating a new database.
- Collaborated effectively with a diverse group of stakeholders, including developers, designers, and educational researchers, to accurately capture and implement project requirements.

Software Engineering Fellow

Jul 2024 – present

Headstarter AI - Long Island City, NY

- Built 5+ AI apps and APIs using NextJS, OpenAI, Pinecone, StripeAPI with 98% accuracy.
- Developed projects from design to deployment leading 4+ engineering fellows using MVC design patterns.
- Coached by Amazon, Bloomberg and Capital One engineers on Agile, CI/CD, Git and microservice patterns.

Software Engineering Intern

May 2023 – Aug 2023

TrustedNation - Chicago, IL

- Spearheaded the development of both the backend and frontend components of the corporate website.
- Restructured the old version of the frontend website to a newer version that uses industry-standard tools like Next.js, enhancing user experience and maintainability.
- Improved and optimized the rendering performance of the corporate website by 25%.

Student Technology Trainer

Nov 2022 – Jan 2024

Software Training for Students (STS) - Madison, WI

- Led 70+ workshops and individual sessions focused on educating students in Data Science and Web Development technologies like Python, R, HTML, CSS, and JavaScript.
- Achieved an instructor rating of 4.80/5, reflecting the high-quality workshops and sessions conducted.
- Created and refined STS workshop manuals, which resulted in a 75% improvement in student mastery rates.

## SELECTED PROJECTS

[Brain Tumor Classification Machine Learning Model](#)

2024

- Developed a machine learning model to detect brain tumors given an MRI scan using SVM in Python.
- Implemented advanced image processing techniques using OpenCV for preprocessing MRI images to identify tumors.
- Achieved a classification accuracy of 95%, contributing to ongoing applications of AI in the healthcare industry.