

ARK DUTT

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EDUCATION

University of Wisconsin-Madison

[May`25]

Majors: Computer Science and Data Science

Minor: Economic Analytics

Coursework: Data Structures and Algorithm, Data Modelling, Computer Architecture, Linear Algebra, Discrete Mathematics, Algorithms, Microeconomics, Intermediate Microeconomic Theory

Clubs: Data Science Club, Google Developer Student Club

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, R, HTML, CSS, JavaScript, SQL, Bash, Swift
- **Libraries/Frameworks:** Pandas, NumPy, Keras, TensorFlow, Tailwind CSS, Next.js, React.js
- **IDEs:** Visual Studio Code, IntelliJ, Eclipse, PyCharm, Jupyter Notebook, R Studio
- **Operating Systems:** MacOS, Windows, Linux
- **Tools:** Git, Docker, Kubernetes
- **Certifications:** All Google Cloud Skills Boost Badges, Supervised Machine Learning: Regression and Classification by Andrew Ng, Advanced Learning Algorithm by Andrew Ng

PROFESSIONAL EXPERIENCES

Software Engineering Intern, TrustedNation | Chicago, IL

[May`23 - present]

- Developed the backend and frontend of the website
- Restructured the old version of the frontend website to a newer version that uses industry-standard tools like Next.js
- Improved and optimized the rendering performance of the website by 25%

Student Technology Trainer, Software Training for Students | Madison, WI

[Nov`22 - present]

- Hosted multiple workshops and one-on-one sessions teaching students Web Development.
- Developed and redesigned manuals taught by STS.
- Curated various workshop manuals and projects, improving student mastery rate by 15%.

Digital Engineering Intern, Adira Finance | Jakarta, Indonesia

[Jun`22 - Jun`22]

- Managed the database of the new products using MySQL
- Used React.js and Node.js to manage the backend and frontend of the website

Engineering Intern, Beehive Drones | Yogyakarta, Indonesia

[Jul`19 - Jul`19]

- Used C, Arduino, and Python to program microcontrollers and microprocessors
- Applied the Internet of Things (IoT) to increase the performance of the drones in the testing stage
- Assembled and tested electronic components of drones & helped test and simulate their performance

SELECTED PROJECTS

[New York City Crash Data Analysis](#)

[2023]

- Conducted data analysis in R investigating different trends of car accidents in the state of New York.
- Displayed the proportion of accidents caused by in-state vs. out-of-state drivers and accidents of each vehicle type.
- Addressed the issue of accidents in New York and what the trend of accidents would look like in the future.

[HealthyIt](#)

[2023]

- Developed an application in Java that allows users to search through posts on a Reddit forum using keywords.
- Worked on the backend to retrieve groups of posts that include specific keywords in their title or body.
- Helps users find the nutritional value of each food and distinguish which is healthy for them.

[Path Finder](#)

[2023]

- Created a Java program that finds the shortest distance between two desired locations across the campus.
- Implemented the algorithm to find the shortest distance and calculate the energy required to walk.
- Assists students on campus to find the shortest way to go from place to place, especially freshmen.

[Real-Time Weather App](#)

[2022]

- Designed a website using React.js and openweathermap API, which tracks the real-time weather of any city in the world.
- Provides various parameters like humidity, wind velocity, sunrise/sunset time, and the 'feel-like' temperature.
- Targets users who want to get information related to the weather of the place they are in.