# ARK DUTT

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## EDUCATION

**University of Wisconsin-Madison, USA**
Bachelor of Science [May '25]
Major: Computer Science and Data Science

## COMPUTER SKILLS

- Programming Languages: Java, C++, Python, HTML, CSS, JavaScript, React.js, SQL
- Graphical Software: Photoshop, Premier Pro, Illustrator, After Effects
- Operating Systems: Mac OS, Windows XP/7/10, UNIX, Linux

## PROFESSIONAL EXPERIENCE

**Software Training for Students,** Student Technology Trainer | Madison, WI [November '22 - present]
- Assisted several students in various skills like HTML, CSS, JavaScript, React.js, SQL, etc.
- Hosted multiple workshops and one-on-one sessions
- Helped students with their respective web-development projects

**Adira Finance**, Digital Engineering Intern | Jakarta, Indonesia [June '22 - June '22]
- Managed the database of the new products using MySQL
- Fixed bugs so that the website is operational
- Used React.js and Node.js technologies to manage the backend and frontend of the website

**Beehive Drones**, Engineering Intern | Yogyakarta, Indonesia [July '19 - July '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

**Recipes at your fingertips!** https://cheesehacks.vercel.app/ [CheeseHacks'22]
- Developed a website that provides recipes based on the user's input of ingredients.
- Contributed to the frontend of the website using Next.js and React.js frameworks
- Utilized Python in the backend to process the dataset

**Real-Time Weather App,** https://tinyurl.com/2fvnb7v8 [2022]
- Designed a website using HTML, CSS, Javascript and React framework, which tracks real-time weather of any city in the world
- Provides additional real-time statistics on humidity, wind velocity, sunrise/sunset time, and the 'feel-like' temperature of any city.
- Used an API from openweathermap to fetch real-time data

**Toilet Monitoring System**, https://tinyurl.com/y4k2jrqe [2021]
- Devised a system to optimize cleaning frequency to solve the odor problem in school toilets using IoT
- Built an ammonia detector that sounds an alarm when the ammonia concentration exceeds a certain threshold
- Developed a website to show ammonia statistics using HTML, CSS, and JavaScript along with Vue.js and Node.js. Used MongoDB for the database.

**Meghan, the Personal Assistant**, https://tinyurl.com/y22x8hqp [2020]
- Programmed a personal assistant that can tell the time, give information, and can let users open websites like Facebook, YouTube, etc., through the voice command
- Used the Microsoft speech API called SAPI5 and python programming language

**Airport Radar Project**, https://tinyurl.com/y27nevel [2019]
- Built a 180-degree radar using an ultrasonic sensor that can provide an obstacle's angle, distance & range
- Created using Arduino, ultrasonic sensor, and servo motors
- Programmed Arduino using C programming language and curated a user interface through Processing (Java)

**Robotic Hand**, https://tinyurl.com/yydeyxd6 [2019]
- Assembled a robotic hand controlled by a joystick at the University of Hong Kong
- Built the robot using Arduino C and multiple server motors

## ACTIVITIES & SOCIETIES

**Member, Data Science Club** [2022]
- Help in organizing various Data Science & Career Development Workshops
- Create projects with fellow teammates

**Member, Game Design and Development Club** [2022]
- Learned more about game development
- Helped my peers in their respective projects