

SAISPARSH KUSTAGISHETAR

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EDUCATION

The Ohio State University, Columbus, OH

Master of Science, Computer Science and Engineering, *AI/SWE Specialization* (Aug 2023 – **Expected May 2024**)

Bachelor of Science, Computer Science and Engineering | GPA: 3.95/4.0 | Summa Cum Laude (Aug 2020 – May 2023)

Relevant Coursework: Machine Learning, Artificial Intelligence, Mobile App Development, Web App Development, Data Structures/Algorithms, Database Systems, Linear Algebra, Software Dev/Design, Statistical Analysis

SKILLS

Languages: Java, Python, JavaScript, C, Ruby, MATLAB, x86-64 Assembly Language, Kotlin

Technologies: Ruby on Rails, Linux, Git, HTML, CSS, SQL/NoSQL, XML, TDD, Amazon Web Services (AWS), React Native, Firebase, Android Studio, Pandas, TensorFlow, OpenCV, MVC Design

EXPERIENCE

Research Intern (SWE) | Walmart Global Tech, OSU NLP Group

May 2022 - Present

- Contributed to Walmart's conversational AI assistant, enabling collection of 10000+ data points for AI model training
- Developed full stack data annotation web application using Ruby on Rails framework, implemented authentication via bcrypt encryption for increased data security. Guided complete product lifecycle, including Figma wireframing
- Implemented state-of-the-art NLP model training techniques to reduce time taken per annotation by 50%
- Weighed database configurations to optimize responsiveness by 25%, parsed JSON data for DB seeding
- Currently developing OSU NLP Group website, leveraging Jekyll for a streamlined and prompt development process

Mobile App Developer | Cherish Eyesight and Vision (CEV) | Contract

Jan 2023 - May 2023

- Developed CEV's mobile app using React Native and AWS, aiming to improve visual health literacy worldwide
- Built out static UI, React components, CRUD functionality for SQLite/AWS DynamoDB, achieving full functionality
- Demonstrated proficiency in enhancing an existing codebase to increase usability and reduce response time by 70%
- Implemented an analytics hub for the admin, providing real-time insights into metrics such as user behavior, enabling data-driven decision-making and a pathway to maximize user retention upon release
- Created a 30-page technical document/deployment guide, with in-depth specifications for the next development team

Artificial Intelligence Intern | Dash Technologies, Inc.

June 2021 – Aug 2021

- Contributed to [Omni Suite](#), a Computer Vision based Operating Room estimated to save ~\$100/minute in OR costs
- Researched OpenCV image enhancement techniques to increase image classification accuracy by 7%
- Implemented Bash Scripts to run via AnyDesk and VNC to reduce productivity downtime by 4+ hours/day
- Annotated camera feed via Google Cloud AutoML, training the Computer Vision model to an 80% classification rate

Graduate Teaching Associate | OSU CSE Department (CSE 2221 - Software Components)

May 2023 - Present

- Leading comprehensive instruction of critical software concepts during the 2023/2024 term to a class of 40 students
 - Solidifying and enriching understanding of critical software concepts while supervising labs and grading
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PROJECTS

[Gift Planner App](#) | **Android Mobile Application**

Feb 2023 - May 2023

- Developed using Firebase Cloud Firestore for data persistence, resilient to 100% of network/location-related errors
- Improved app performance by 50% via optimization techniques such as reducing network calls, minimizing database queries, using faster searching algorithms, and overall refactoring

[CORE Interpreter](#) | **Academic Project**

Sep 2022 - Nov 2022

- Designed and implemented an interpreter from scratch for the CORE programming language with Java
 - Gained hands-on experience with interpreter design, formal languages, recursive descent parsing, regular expressions
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CERTIFICATIONS/AWARDS/LEADERSHIP

- **AWS Certified Cloud Practitioner 2023** - Demonstrated foundational understanding of AWS Cloud and services
- **Student Coach | Olympic Weightlifting Club at OSU** - Observing athletes/reviewing athlete footage
- **National Merit Scholar Finalist | Recognized Nationally** - Awarded to 15,000 out of approximately 1.5 million