

# HARSHITHA AKKARAJU

<Software Engineer/>

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## EDUCATION

University of Washington, Seattle

Graduating December 2019

BS (Honors) in Informatics: Data Science and Human Computer Interaction

3.60 / 4.00 GPA (Dean's List)

## SKILLS

*Languages and Frameworks:* Java, Node.js, Python, R, Swift, Git, React, Redux, HTML, CSS, Google Firebase, AWS, Alexa SDK

*Processes:* Algorithmic thinking, Unit Testing, Version Control, Agile, Design Thinking, Research, Independent learning, Mentoring

## EXPERIENCE

*Momentary Experience Lab, UW College of Engineering - Undergraduate Researcher* October 2018 - Present

- Contributed to the development of a social robot; expanded the robot's functionality by designing and implementing a voice interaction model.
- Developed an Amazon Echo Skill using a Raspberry Pi and multiple Amazon web services to enable data collection and voice interaction.

*Code and Cognition Lab, UW Information School - Undergraduate Researcher*

June 2018 - Present

- Applied agile design and development principles to develop research prototypes.
- Built an internal web tool using ReactJS to make curriculum creation easier for a programming tutor.
- Contributed to a research study, performed qualitative analysis and co-authored a paper accepted to the SIGCSE conference.

*Taskar Center, Allen School of Computer Science - Undergraduate Researcher*

April 2017 - June 2018

- Developed the workflow for aggregating data from multiple datasets from the Seattle Open Data Portal.
- Wrote Python scripts to map the different datasets to sidewalk data obtained from AccessMap™, an accessible pedestrian trip planner.
- Designed a database schema and populated the MySQL database with sidewalk data along with other aggregated data.

## PROJECTS

*Koconut - Design + Development*

- Designed and implemented part of a web tutor that uses Bayesian Knowledge Tracing to help novices learn introductory programming concepts.

*Ohana - Interaction Design + Development*

- Gained experience working with Amazon web services by building a dynamic chore manager and an Amazon Alexa Skill to be used in combination with it.

*Tic Tac Toe - Development*

- Built an AI based tic tac toe that implements the minimax algorithm to play against the user. Developed the front-end in Vue.js.

## LEADERSHIP

*UW Society of Women Engineers - Outreach Program Director*

Conducted programming workshops, speaker panels with an emphasis to expand the image of technology as a rewarding career choice. Planning outreach events for 100+ undergraduates and k-12 students.

*Women in Informatics - Student Representative*

Planned the 7th Annual WINFO Hackathon, organized company tours, networking events, and facilitated conversations about diversity in technology.