

# Medha Gupta

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## Education

**Rice University**, Houston, TX

*Expected Graduation: May 2021*

Bachelor of Arts in Computer Science; Major GPA: 3.7/4.0

**Selected Coursework:** Advanced Object Oriented Programming, Tools & Methods for Data Science, Advanced Algorithms & Data Structures, Computer Systems, Artificial Intelligence, Distributed Program Construction

## Skills

**Languages:** (*proficient*) Python, Java (*intermediate*) C, R, MATLAB, Kotlin (*novice*) HTML/CSS, Javascript, Solidity

**Tools & Frameworks:** SQL, PySpark, NumPy, Tensorflow, Keras, Android Development, Node.js, UnrealCV, XML

## Experience

**Facebook** | Software Engineering Intern

*May 2020 – Aug 2020*

- Delivered a new, consumer-facing feature to improve usability and discoverability of Portal Smart Camera
- Collaborated with cross-functional stakeholders (design, product, privacy) to refine MVP design
- Dogfooded feature to over 1000 Facebook employees and fixed all reported bugs within the final week

**Nod Labs** | Computer Vision Intern

*May 2019 – Aug 2019*

- Integrated a deep reinforcement learning algorithm for visual navigation with AI research tool, Habitat-SIM
- Implemented numerical optimization of SLAM algorithms in Tensorflow to test for successful training of the model without backpropagation

## Projects

**RFSBot**

*June 2020*

- Created a Messenger chatbot using Node.js and Spotify Web API that allows users to queue and play songs

**ChatApp** | Advanced Object Oriented Programming

*Mar 2020*

- Developed a chatroom application using Java RMI with peer-to-peer architecture and asynchronous message sending that allows users to create, join, and invite each other to rooms and send messages

**Part of Speech Tagger** | Algorithmic Thinking

*Apr 2019*

- Implemented statistical learning of a HMM using a training corpus of pre-tagged words and the Viterbi algorithm to assign part-of-speech tags using the trained HMM with accuracies of over 90%

## Extracurriculars & Leadership

**Rewriting the Code** | Fellow

*June 2020 - Present*

- Rewriting the Code is a national organization for undergraduate women in tech; the fellowship provides a select group of women with industry exploration, networking, and mentorship opportunities through RTC

**Rice Design for America Studio** | President

*Apr 2019 – Present*

- Teach the human-centered design process and design thinking to ~40 students a semester including user research, rapid prototyping, and sustainable implementation
- Facilitate partnerships with Houston area nonprofits to secure sponsors for semester-long design projects

**Computer-Human Interaction Lab** | Research Assistant

*Jan 2020 – Apr 2020*

- Used ACT-R (cognitive architecture) to create simulations based off of eye-tracking data collected from paper ballot voting to evaluate the usability of such systems and provide recommendations to officials

**Other:** BlackRock FastTrack to Fintech Participant, #BUILTBYGIRLS WAVE Mentee, SRC Willy Week Coordinator