

HIMANI YADAV

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EDUCATION

University of Georgia, Athens, GA

Graduation: May 2022

B.S. Computer Science, A.B. Cognitive Science, A.B. Philosophy

GPA: 4.0

- **Honors:** Foundation Fellowship, Phi Beta Kappa, Stamps Scholar, Honors Program, CURO Research Assistantship
- **Coursework:** Data Structures, Artificial Intelligence, Data Mining, Human-Computer Interaction, Linear Algebra

EXPERIENCE

Velni Lab, Athens, Georgia

January 2022 to present

Undergraduate Research Assistant

- Research focus on artificial intelligence applications to agriculture and sustainability with PI Dr. Javad Velni
- Build in-cloud deep learning analysis component of a real-time big data pipeline for field-based plant phenotyping
- Achieved over 93% image file size compression with machine learning dimension reduction, PCA and autoencoder

Quinn Research Group, Athens, Georgia

August 2019 to present

Undergraduate Research Assistant

- Research focus on deep learning, computer vision, neuroscience, and public health with PI Dr. Shannon Quinn
- Apply deep clustering networks in computer PyTorch to identify Parkinson's disease subtypes in brain image data
- Implement vector-quantized variational autoencoder model to identify PD biomarkers in latent space

Google, New York City, New York (remote)

May 2021 to August 2021

Software Engineering (SWE) Intern

- Implement a new video error insights card to the Google Ad Manager homepage with Dart, Angular, HTML, and CSS
- Created data model for the video error insights card, formatting data and bridging the front end with the back end
- Collaborated with key stakeholders (PM, UX, Eng) and presented in front of 20+ team to settle open design questions

Google, Pittsburgh, Pennsylvania (remote)

May 2020 to August 2020

Student Training in Engineering Program (STEP) Intern

- Utilized NLP and information retrieval techniques to categorize textual data stored in web app's NoSQL database
- Ideated, designed, and implemented Groupple: a full stack social platform web application for friend groups ([GitHub](#))

UGA Department of Computer Science, Athens, Georgia

August 2019 to December 2019

Peer Learning Assistant, Intro to Software Development

- Oversaw in-class coding tasks, led weekly review sessions and busy office hours, debugged code, problem-solved

NHS Improvement, London, England

June 2019 to July 2019

Data Analytics Intern

- Predicted hospital attendance statistics with R and SQL; presented findings with software Tableau and Alteryx
- Developed data evaluation pipeline now used in hospitals all around England, in accordance with client specification

ACTIVITIES & INVOLVEMENT

- **Girls Who Code**, *Co-Founder, Co-President*: Teach Scratch, JavaScript, and Python coding to 30+ girls at 3 middle and high schools to close the gender gap in STEM. Lead 30+ volunteers, plan weekly lessons, and oversee projects.
- **Corsair Society**, *Technology Sector Co-Lead*: Selective organization preparing students for careers in tech. Develop curriculum to facilitate active industry discussion, professional development, and technical preparation for students.
- **UGA Hacks 7**, *Organizer*: Coordinate logistics and side events for hackathon with over 800 registered participants.
- **Data for Good**, *Data Team Member*: Artificial-intelligence focused team used Python, natural language processing, and Twitter API to perform sentiment analysis on tweets made around the UGA campus.
- **Deep Learning at UGA**: Attend research talks and Python workshops about deep learning and data science.

PROJECTS

- **Software Engineering, online bookstore** (2021). Full-stack development in Java Spring MVC to code store website
- **Data Mining, cilia image segmentation** (2020). Implemented three image segmentation deep networks in Python
- **Software Development, arcade games** (2019). Built out UI, animation, and logic of Checkers and Frogger in Java
- **UGA Hacks 4** (2019). Optimized database's search time using SEO techniques with Java Apache Lucene library

SKILLS

- **Programming Languages:** Java (proficient), Python (proficient), C++ (intermediate), C (less experience)
- **Web Development and Design:** Dart, JavaScript, HTML, CSS, Angular
- **Data Analysis and Presentation:** SQL, R, Tableau, Alteryx
- **Tools:** Git/GitHub, Linux, Jupyter Notebook, PyTorch, LaTeX, Google Cloud Platform, Figma, Microsoft Office
- **Interests:** artificial intelligence, data science, machine learning, data mining, computing ethics, HCI