# A/Z ABHAY ZALA

UNC COMPUTER SCIENCE MAJOR

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## ABOUT ME

*Seven years of web and application development experience. Many awards at hackathons. Research Assistant at the MURGe-Lab (UNC-NLP Group).*

Strong programming skill in Python, Java, C#, C, JavaScript/NodeJS, and HTML/CSS. Experienced with Machine Learning, AWS, GCP, IBM Cloud, Docker, Unity, Node.JS backend creation, Git/GitHub, Expert certified in Excel.

## EDUCATION

**Computer Science Major (B.S.)**
*UNC Chapel Hill*
Class of 2023

**Statistics and Analytics Minor**
*UNC Chapel Hill*
Class of 2023

## PUBLICATIONS

Research paper titled, "ArraMon: A Joint Navigation-Assembly Instruction Interpretation Task in Dynamic Environments", accepted into EMNLP Findings. https://arxiv.org/abs/2011.07660

## COURSEWORK

- Java Programming
- Special Topics in Computer Science
- System Fundamentals
- Data Structures
- Computer Organization
- Models of Languages and Computation
- Calculus I, II, III
- Discrete Mathematics

## EXPERIENCE

### Summer Intern   2020 (May – August)

Interned at the MURGe-Lab (UNC-NLP Group) research lab. Developed an AI model to interpret natural language instructions and carry out robotic action tasks. Model was built in Python using PyTorch and a simulation environment was built in Unity with C# and hosted on AWS. Research paper accepted into EMNLP Findings.

### Undergraduate Research Assistant   2019 – Present

Researching new ideas and directions for Natural Language Processing (NLP) and Machine Learning at the MURGe-Lab (UNC-NLP Group). Primarily focused on integrating NLP with other fields of research such as Computer Vision and Embodiment.

### TSA President   2018 – 2019      TSA Member   2015 – 2019

Software developer and leader at the school Technology Student Association (TSA). I have won several awards from TSA.

### Webmaster   2018 - Present

Created and maintain the following websites using HTML5, CSS3, and JavaScript/jQuery. Also familiar with hosting NodeJS backend servers.

- Personal website portfolio - aszala.com
- TSA webmaster - aszala.com/2019-webmasters

### Software/Application Developer   2014 - Present

Developed several games and applications.

- Developed various AI for personal use, hackathons, and research.
- Developed several video games using Unity/C# and Java.
- Developed a NodeJS backend server to work with personal projects.
- Developed various mobile apps for Android and desktop/web apps.