

SOOHOON CHOI



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EDUCATION

Georgia Institute of Technology **Atlanta, GA**

B.S. in Computer Science

Concentration: Intelligence and Information-Networks

GPA: 4.0

August 2019 - May 2023 (Expected)

WORK EXPERIENCE

Amazon SDE Intern **Seattle, WA**

Incoming Software Development Intern at Amazon

June 2021 - August 2021

Systems Neural Engineering Lab **Emory-Georgia Institute of Technology**

Undergraduate research assistant working on reading and interpreting neural data

- Developed control systems with Arduino and Raspberry Pi to train and acquire data from rodents.
- Used MATLAB to organize, manipulate, and visualize data.
- Developing a data frame tool in Python using libraries such as pandas to infer neural population dynamics in primates.
- For more information about the lab visit: snel.gatech.edu

January 2020 - Present

Private Tutor

Self-employed tutor that aided high school students on various topics

- Helped students achieve high scores on exams such as the TOEFL, SAT, and various AP exams.

2015 - 2018

PROJECTS

Brain Train

- Developing a JavaScript web application to practice mental math using the MERN stack.
- Implementing personalization through user login and authentication.

February 2021-Present

Farming Simulator

- Creating a farming simulator game in Java using JavaFX for my Objects and Design class.
- Acting as the team leader in managing code reviews and version control through git and GitHub.
- Followed the principles of the unified process while working in a team of 5.

August 2020 - Present

SIR Model Visualizer

- Created a Susceptible-Infected-Recovered (SIR) model visualizer with Python to understand the nature of pandemics.
- Made use of algorithms such as Euler's method and Runge-Kutta 4 to test out different numerical methods.

July 2020

Breadboard Computer

- Built a 8 bit computer with IC chips and breadboards inspired by Ben Eater on YouTube.
- Implemented components such as memory, ALU, and control logic.
- Programmed basic commands in C and Assembly to learn about low level programming.

March 2020

EXTRACURRICULARS AND AWARDS

Extracurriculars

August 2019-Present

The Agency: Georgia Tech's undergraduate club for AI and ML. Working with a team on creating a sentiment analysis tool for stock analysis.

Arts in Health: Provided patients undergoing chemotherapy relief with art therapy. Received 100% positive feedback from participants.

Eta Kappa Nu - IEEE: Member of the Georgia Tech chapter of the EECS national honor society.

Awards

2019, 2020

KASF Scholarship: The Representative speaker for the Korean American Scholarship Foundation's Southern chapter.

Dean's List and Faculty Honors: Maintained a GPA of 4.0 during all semesters.

SKILLS

Programming Languages

Proficient: Java, Python. Familiar: JavaScript, C/C++, SQL, MATLAB, HTML, CSS.

Technologies

Proficient: Git, GitHub. Familiar: Linux, LaTeX, MongoDB, Express, Node.js, React