

ISHAAN GUPTA

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US Citizen - No work Auth Required

SUMMARY

Highly motivated computer science graduate with a Bachelor's degree in Computer Science. Proficient in programming skills in languages such as Python, Java, and C++ as well as in software development methodologies and tools, like Agile and Git. Seeking opportunities to apply my knowledge and experience to contribute to cutting-edge technology developments in a dynamic and collaborative environment.

EDUCATION

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| Bachelor of Science in Computer Science <i>College of Science and Engineering</i> <ul style="list-style-type: none">● Major: Computer Science, Minor: Mathematics● GPA: 3.92 / 4.00.● University Honors Student; Dean's List throughout college | University of Minnesota, Twin Cities <i>September 2021 – December 2023</i> |
| Master's of Science in Computer Science <i>College of Science and Engineering</i> Course Work: <ul style="list-style-type: none">● Algorithms and Data Structures● Regression & Statistical Computing● Machine Architecture and Organization● Operating Systems● Cryptology● Artificial Intelligence● Advanced Programming Principles● NLP (Natural Language Processing)● Optimization for Machine Learning | University of Minnesota, Twin Cities <i>January 2024 – May 2025</i> |
| High School Diploma (GPA 3.94) | Eden Prairie High School, MN |

SKILLS

Programming Languages: Java, Python, C#, C, Ocaml, Julia, R, Assembly, JavaScript, C++
Technical Skills: Experience in Unity, VSCode, GitHub, Perforce, Jira, IntelliJ, Node.js, Heroku, MongoDB, Docker, Agile Methodology, React, Keras, Pytorch, OpenAI, Angular.js

EXPERIENCE

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| Software/Firmware Developer Intern , Seagate Technologies, Shakopee, MN <ul style="list-style-type: none">● Primary responsibilities include design, development and integration of embedded code for Seagate Hard drives.● Interacted with customers such as Google, Microsoft, and Meta to analyze and resolve failures and performance issues during product qualifications.● Developed software and firmware tools that generate production analytics and customer drive reports, using C and Python. This tool helped reduce issue resolution time by 10%.● Used Agile/Scrum methodology and performed within a team of 10 senior firmware engineers. | <i>May 2023 – Current</i> |
| LLM and NLP Researcher , U of MN, Minneapolis, MN <ul style="list-style-type: none">● Working with a Ph.D. student in U of MN's NLP (Natural Language Processing) Group under the guidance of Professor Dongyeop Kang.● Research in Collaborative-NLP systems between humans and machines, and developed a full-stack web-based prototype system that collects and models eye-tracking data using JavaScript behavioral framework (jsPsych), Python, PHP, Node.js, Heroku and MongoDB.● Currently researching ways to allow Large Language Models, like ChatGPT, to analyze and build conclusions from graphical data using Pytorch and OpenAI API. | <i>December 2022 – Current</i> |

PROJECTS

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| Unity Melee Fighter Game <ul style="list-style-type: none">● Created a 2D Fighter Game. Code Development done in C# using Unity API.● Implemented fluid sprite animations, character control, enemy AI and optimized A* pathing with special combat effects (such as knockback, shield blocking, parrying, etc.) |
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PUBLICATIONS

- Debarati Das, Ishaan Gupta, Jaideep Srivastava, and Dongyeop Kang. 2023. Which modality should I use – text, motif, or image? : Understanding graphs with Large Language Models.