

AARUSHI BISWAS

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EDUCATION

Georgia Institute of Technology

May 2026

Master's degree in Computational Science and Engineering

University of Illinois at Urbana-Champaign

May 2023

Bachelor's degree in Computer Engineering (Minor in Business Administration)

GPA: 3.68/4.0

- Relevant Coursework: Data Structures & Algorithms, Computer Systems architecture, Linear Algebra, Artificial Intelligence, Machine Learning, Database Systems Management, Web Development, Natural Language Processing

RELEVANT EXPERIENCES

Technical Product Manager Intern

July 2023 - April 2024

Snyder Technologies LLC.

Bethlehem, Pennsylvania (Remote)

- Contributed to end-to-end product development using agile methodologies such as backlog management on Azure DevOps
- Facilitated cross-functional communication of KPIs, project requirements and objectives between teams and clients
- Contributed to the data collection and documentation of projects and product development prototyping by utilizing Figma

Software Development Intern

May 2022 - August 2022

Apple Inc.

Cupertino, California

- Owned an independent project to create an automated UI testing system for Apple Virtual Platform using the YOLOv5 object detection model where each UI element was treated as an 'object'
- Implemented a feature in the virtualization framework to enable automatic screen recordings of Virtual Machines during and after boot-up which was then fed to the UI testing tool to establish an end-to-end automated UI testing process

Software and Digital Solutions Intern

June 2021-August 2021

Robert Bosch LLC

Farmington Hills, Michigan (Remote)

- Contributed to an AIoT project by utilizing SQL and Excel to analyze large amounts of real time data from small sector machinery to improve energy efficiency by simulating potential operating challenges and asset breakdown events
- Conducted research and wrote a research paper on how an IoT based technology (such as Digital Twin technology) can be paired with Enterprise Asset management to solve real time problems

PROJECTS

Accessibility Bracelet Aid for d/Deaf and HoH People (Capstone Project)

January 2023 - May 2023

- Developed a bracelet aid which detects crucial sounds and notifies the user through unique visual and haptic feedback
- Designed a PCB using the ESP32-C3 microcontroller for control which utilized C++ libraries to perform FFTs for accurate sound detection, processing and feedback in under 10 seconds
- Received the 'Runner up for Best Bio-medical device' award from the ECE department

GraderU

November 2022 - December 2022

- Designed a Full-Stack Web Application using MongoDB, Express.js, REACT and Node.js (MERN) for UIUC's course GPA data
- Implemented authentication, protected pages and single-page routing while utilizing Material UI/UX design principles
- Acquired the 'Most innovative project' title at the course's app competition

Movie Recommendation Generator

February 2022 - May 2022

- Collaborated to create a Full-Stack Web Application for a Movie recommendation generator based on the IMDb database
- Employed MySQL for database management, integrated Flutter and Flask frameworks interfaced with REST APIs and deployed the application on Google Cloud Platform for hosting
- Stored dataset in tables with primary and foreign keys to create database relationships and utilized Advanced SQL features such as indexing, stored procedures and triggers on the tables to process user requests

Operating Systems

October 2021-December 2021

- Collaborated to write and debug 1500+ lines of code to build a simple Unix based kernel of an operating system using a mix of x86 ASM and C programming language
- Developed support for non-preemptive context switching, segmented memory protection, Paging, a simple file system, drivers for keyboard input, text output and clock (RTC), and 6 system calls

SKILLS & CERTIFICATIONS

- **Programming:** C, C++, Python, MySQL, JavaScript, MongoDB, Neo4j, Dart, Flutter, HTML/CSS, JSON, x86 ASM, SystemVerilog
- **Frameworks/Libraries/Misc:** Git, Linux/Unix, Tensorflow, Scikit-learn, Numpy, GCP, Flask, REST API, React, Node.js, Express.js
- **Machine Learning Specialization** by Stanford & DeepLearning.AI (Coursera) Est. August 2024