

# Utsha Paul

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Problem solver and curious individual working to make a difference in the tech industry.

## EDUCATION

- **Stony Brook University** Stony Brook, New York  
*Bachelor of Computer Science; GPA: 3.5* *August 2021 - May 2025*  
*Courses: System Fundamentals, Data Structures, Analysis Of Algorithms, Theory of Computation, Machine Learning, Finite Mathematical Structures, Discrete Mathematics, Programming Abstractions*

## SKILLS SUMMARY

- **Languages:** Python, JAVA, C, OCaml, Typescript, Assembly Language, SQL, Dart, Go Programming, Javascript
- **Frameworks:** React Native, Flutter, NodeJS
- **Tools:** Visual Studio Code, PostMan, Figma, PyCharm CE, BitBucket
- **Platforms:** Linux, Windows, Google Cloud Platform, AWS
- **Soft Skills:** Leadership, Event Management, Problem Solving, Public Speaking, Time Management

## EXPERIENCE

- **Teaching Assistant - Data Structures** Stony Brook, NY  
*Instructor (Full-time)* *Jan 2023 - May 2023*
  - Assisted 30+ students with debugging code, and strengthened understanding of time complexity and data structure concepts
  - Facilitated 2-3 review sessions for 100+ students with a group of teaching assistants to prepare students for Data Structures and Algorithms examinations
- **Bioengineering Education, Application and Research - VIP Research** Remote  
*Software Developer + UI/UX Designer* *Jan 2022 - May 2023*
  - Utilized Figma to refine and enhance a prototype, employing user-centered design principles to create an improved and visually appealing user experience.
  - Constructed an accessible web application, using Flutter framework and Dart language, that executes user data from a Fitbit device to help hospitals document patient data
- **WiCS : Women in Computer Science** Stony Brook, NY  
*Webmaster* *Feb 2022 - Aug 2022*
  - Developed WiCS's website using a combination of HTML and JavaScript, crafting an engaging and user-friendly online platform to showcase the organization's mission, events, and resources
  - Designed and launched an interactive gallery section that effectively made it easy for users to view organized photos from different WiCS events
- **Event Committee Chair** *May 2023 - Current*
  - Successfully orchestrated and managed over 50+ impactful events focused on promoting women in computer science, fostering inclusivity, and creating a supportive community for female professionals in the field.
- **Workopti** Remote  
*Full Stack Developer Intern* *July 2022 - Aug 2022*
  - Implemented authentication using Passport Strategy, seamlessly integrating applications such as Slack, Jira, and Discord for a cutting-edge startup that centralized technology platforms, resulting in a significant reduction of collaboration costs by 45 percent across enterprises.
  - Remodeled the integration process to connect user data, including deadlines and team projects, from external applications to Workopti, thereby streamlining individual workflows and enhancing organizational efficiency.
- **CodeCademy** Remote  
*Curriculum Web Developer Intern* *July 2021 - Aug 2021*
  - Mastered Go Programming through diligent research and self-study within a short span of one week.
  - Developed and published a Go Programming language module consisting of 55+ exercises, a project, and quizzes on arrays and maps
  - Worked on over 150+ hours of Curriculum development work through regex while utilizing Golang's official documentation and Codecademy's curriculum guidelines

## PROJECTS

- **Spotify Clone:** Created a Spotify clone application using Tailwind, React, and RapidAPI to enable users to play any music of their choice.
- **AI plays Snake:** Designed, trained, and deployed an AI model using PyTorch and Pygame Reinforcement Learning to play and dynamically avoid endless loop sequences in the game of Snake.

## HONORS AND AWARDS

- Best Design at TechTogether New York 2023 hackathon • Recipient of Presidential Scholarship • Dean's List • Questbridge College Prep Scholar • Posse Semi-Finalist • Recipient of 2021 SparkYouth scholarship