ISHAN SHETTY

Software Engineer

EDUCATION

B.S. in Computer Science & Minor in Mathematics
2024 | 2020
University of Minnesota - Twin Cities — Minneapolis, MN, USA
- Final year in the honors program taking classes in artificial intelligence, robotics, and computer vision
- Undergraduate Research Assistant in the Robotic Sensor Networks Lab working with ROS, computer vision & drones
- TA for CSCI 3081W (Program Design and Development)

High School Diploma
2021 | 2016
Eden Prairie High School — Eden Prairie, MN, USA
- National Merit Finalist, AP Scholar with Distinction & graduated with GPA of 3.93
- Participated in FIRST Robotics (Captain and Media Lead), Math Team & Futurist's Academy

EXPERIENCE

Technology Intern
2023
The Cigna Group — Bloomington, MN, USA
- Engaged as a System Architect to observe architectural decision-making in a large enterprise company
- Created a pre-modernization claims process database diagram for documentation purposes
- Built an analytics data pipeline and reporting api for the admin side of a survey website using AWS and terraform
- Utilized SPARQL to query AWS Neptune and provide analytics data to the frontend using API Gateway
- Used the following technologies: Terraform, AWS (API Gateway, Neptune, Lambda, S3), Java, Python, SPARQL

Software Engineering Intern
2022
AcuityMD — Somerville, MA, USA
- Collaborated within an agile environment to deliver features for a sales platform tailored to medical device companies
- Developed an interactive map using the Mapbox API, enabling clients to effortlessly create sales territories and regions
- Implemented the frontend of an @mentions and notifications system, fostering seamless user interactions.
- Used the following technologies: React, GraphQL, Docker, Jest, Typescript, Mapbox API

Associate Software Engineer
2022 | 2021
ExperienceIT — Bloomington, MN, USA
- Contributed to a small, agile team, actively engaged in diverse projects for various clients
- Consulted for United Health Group, creating and maintaining a medical portal site utilized by doctors
- Built and deployed a full-stack web app for a horse barreling startup based on client requirements and feedback
- Used the following technologies: Angular, Typescript, Material UI, Docker

Captain
2021 | 2020
First Robotics (Team 2502) — Eden Prairie, MN, USA
- One of four team captains elected by a 40+ member team in charge of five leads and subteams
- Conducted weekly team meetings, monthly leadership meetings, and maintained effective communication via email
- Fostered relationships and promoted team brand by engaging with sponsors and community

PROJECTS

Burnout
2022
- Developed a user-friendly web app to make digital privacy more accessible using Angular and FastAPI (Python)
- Utilized Twilio to provide users with temporary phone numbers for enhanced privacy when texting strangers
- Overall 2nd place winner and winner of best use of Twillio at Hackathon (Minnehack 2022)

Super Mario Bros AI
2021
- Utilized NEAT (Neuroevolution of Augmenting Topologies) to train an AI that successfully beat a few Mario Bros levels
- Developed using python and OpenAI Gym Retro to create an environment to train agents on retro games
- Input to the agent's network combines computer vision with values from the emulated NES RAM for the best results

Neural Network Framework
2020
- A Java-based (standard library only) neural network implementation from scratch that includes multiple training options
- Easily extendable to use on other training algorithms (comes with genetic algorithm and backpropagation)
- Includes examples of the network in action such as the classic XOR problem and a network that can beat Snake

Discord Bot
2019 | 2016
- A Raspberry Pi-hosted Discord bot, actively serving over 300 servers and accessible to nearly 90,000 users
- Implemented seamless integration of Reddit API allowing users to view Reddit posts directly within their Discord servers
- Incorporated audio playback functionality from YouTube, enabling music playback in voice chats

PORTFOLIO

🌐 bricksandpieces.github.io
⬡ github.com/bricksandpieces

CONTACT

in linkedin.com/in/ishan-shetty

AWARDS

National Merit Finalist
AP Scholar with Distinction
Elks Scholar

Minnehack 2nd Place Winner
Minnehack Best Use of Twillio

SKILLS

Java Python C C++ C# Swift
OCaml Javascript Typescript
HTML5 CSS JSON YAML XML
Angular React Vue Terraform
AWS SQL GraphQL SPARQL
ROS Unity Godot Git Github
Gitlab Jira Docker Linux/Unix