Ansh Sharma

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EDUCATION

University of Texas at Arlington   Arlington, Texas
Senior, Bachelors of Science, Computer Science   GPA: 3.946/4.0   August, 2020 - May, 2024

RELEVANT COURSEWORK

Data Structures and Algorithms, Introduction to Software Engineering, Assembly Language, Object Oriented Programming, Discrete Mathematics, Theoretical CS, Databases,Introduction to Computer Engineering, Calculus (I, II, III), Artificial Intelligence, Machine Learning (Ongoing), Computer Networks & Organization (Ongoing), Computer Graphics (Ongoing).

WORK EXPERIENCE

Go Together   Remote
App Development Project Lead Intern   August, 2023 − Present

- **Orchestrated** Android & iOS development teams to **create** a carpooling app, **implementing Agile methodologies** and Scrum to **enhance efficiency** by 60%.
- **Engineered** a cross-platform **.NET back-end**, streamlining service delivery across platforms and **reducing query time from 150ms to 50ms**.
- **Directed** modernization of an undocumented legacy codebase, **integrating** industry standards and **overseeing** the alignment of technical deliverables to ship well-documented **high-quality code**.

Amazon   Palo Alto, California
Software Engineering Intern   May, 2023 − August, 2023

- Developed an **AWS-based** automated validation service in **Java** for Amazon Ads, **enhancing the scalability** of 3rd-party script testing platform.
- **Streamlined** the ad script ingestion process by **automating workflows**, **boosting** team **productivity by 40%**, and **reducing manual tasks** for on-call engineers.
- **Initiated** and **delivered** an automated ad testing service using **selenium hosted on AWS Lambda**, drastically **reducing** testing time **from 2 days to 30 minutes** and **accelerating ad deployment** across the global marketplace.

College of Engineering   Arlington, Texas
Teaching Assistant, Data Structures and Algorithms   August, 2022 − May, 2023

- **Collaborated** in the development and official adoption of a **Data Structures and Algorithms** curriculum **enhancing** academic framework.
- **Conducted** office hours and review sessions, **mentoring** students to **improve** their **performance by 15%**.
- **Assessed** and **provided feedback** on academic assessments, **fostering** a deeper understanding of complex concepts.

SKILLS AND INTERESTS

Programming Languages: C++, C, JavaScript, Python, TypeScript, CSS, Swift, Kotlin, HTML5, Java.
Development: IOS development, Android Development, Web Development, Bash Scripting, Machine Learning.
Tools and Frameworks: NodeJS, MATLAB, MS Office, ReactJS, Git, .NET, NextJS, Numpy, Pandas, Tensorflow, openCV.
Databases: MySQL, Firebase, MongoDB, SQLite.
Concepts: Object Oriented Programming, Functional Programming, Agile, MVVM, MVC, REST API.
Cloud Development: AWS, AWS CDK, DynamoDB, Amazon S3, Athena, Lambda Functions, EC2, VPC.
Interests: Table Tennis, Working out, Reading, Video Games.

PROJECTS

Pong Playing AI *(Machine Learning, Neural Networks, Python)*   Link to Github

- Designed and implemented a robust **Artificial Intelligence (AI)** agent for the classic arcade game Pong, utilizing the **NeuroEvolution of Augmenting Topologies (NEAT)** algorithm to dynamically evolve and optimize the **neural network** architecture and weights, achieving a **70% increase in gameplay performance** over baseline within **200 training generations**, thereby demonstrating a significant enhancement in **real-time decision-making** and adaptive learning capabilities

EthDexMatrix *(React, TailwindCSS, Solidity)*   Link to Github

- Built and deployed a sophisticated next-generation **Web 3 application** on the **blockchain**, integrating **MetaMask** for streamlined **Ethereum transactions**. The tech stack included **React** for interactive UI/UX, **Tailwind CSS** for modern design aesthetics, and **Solidity** for robust **smart contracts** creation. This personal project demonstrated a **100% successful integration** with MetaMask, facilitating error-free transactions in all tested scenarios.

Threads App *(NextJS, React, MongoDB, TypeScript)*   Link to Github

- Constructed a **full-stack** clone of the a social media application utilizing **Next.js**, **TypeScript**, **React**, and **MongoDB**, demonstrating proficiency in **MERN** stack technologies, end-to-end development, and the replication of complex functionalities within a modern web application framework. This project was **completed in a 3-week timeframe**, underlining efficiency and time management skills.

LEADERSHIP AND ACTIVITIES

Indian Maverick Society (Member): Helped the indian society at UTA in organizing events and spreading indian culture.
Table Tennis Team (Captain): Lead the table tennis team in high school to win zonal and inter-zonal competitions.
Human Welfare Council (Volunteer): Managed the social media accounts increasing traffic by 10% per week and raised Rs.5000.