Utsav Parajuli

9496079098 uparajuli07@gmail.com github.com/utsavparajuli linkedin.com/in/uts

EDUCATION

UNIVERSITY OF CALIFORNIA, IRVINE – Irvine, CA   *December 2023*
Bachelor of Science, Computer Science
GPA: 3.76
Deans honor list: 4

EXPERIENCE

AGIL SOLUTIONS – Remote
Software Development Intern   *June 2021 – September 2021*
- Developed a web portal for a client using the Blazor WASM web framework and accompanied ASP.NET backend.
- Worked with existing backend API and database schema.
- Optimized new and existing REST queries to improve site performance and responsiveness.
- Collaborated with team members which involved daily standups and weekly deliverables. Heavily relied on agile methodology.

PROJECTS

SEARCH ENGINE
- Developed a Web search engine from the ground up that is capable of handling tens of thousands of Web pages, under harsh operational constraints and having a query response time under 300ms.
- Implemented an inverted index, vector space model, tf-idf factor, cosine similarity score, MapReduce paradigm and distributed query evaluation.

MULTIPLAYER GAME
- Developed a full-stack network-based multiplayer game with a robust and scalable infrastructure with a team of four developers.
- Designed the backend using the microservice architecture to assimilate independently operating modules to ensure minimal downtime and optimal scalability.
- Implemented a custom messaging queue to facilitate communication in real-time between the different services.
- Developed and implemented a server architecture that included a robust network structure and thread pool management to ensure the server backend could properly and efficiently manage a high amount of traffic.
- Created and hosted a Postgres database in the cloud which recorded user data, game statistics, and global leaderboards.

SKILLS

Programming Languages:
- C/C++   [Proficient]
- C#   [Proficient]
- Java   [Proficient]
- Python   [Proficient]
- HTML/CSS   [Intermediate]
- JavaScript   [Beginner]

Tools / Frameworks:
- Linux   [Intermediate]
- Blazor   [Intermediate]
- Git   [Proficient]