Preet Talati

Full Stack Developer

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EDUCATION

University of Illinois at Chicago – College of Engineering   GPA: 3.92/4.0

Bachelor of Science in Computer Science
- Dean's Honors List

TOP PROJECTS

STAY-SAFE | GCP | JavaScript | HTML | CSS
- Enabled real-time incident reporting and response by developing a mobile application using Google APIs, which enabled efficient look-up of distinct reports in a given area.
- Enhanced accessibility and usability for a diverse user base by designing a responsive, user-friendly application.
- Demonstrated adaptability and problem-solving skills, crucial for successful project delivery by overcoming technical challenges to ensure cross-platform compatibility, including addressing iOS compatibility issues.

Concurrent HTTP Server | C
- Developed a concurrent HTTP server in C, supporting both Thread per connection and Thread pool threading models, enabling efficient handling of multiple client requests simultaneously.
- Enabled simultaneous access to multiple URLs including /ping, /echo, and file downloads, which helped produce effective parallel client interactions.
- Ensured request safety and atomicity by preventing data corruption and maintaining integrity which protected the HTTP server's data.

Networked 3 Card Poker | Java | Junit Testing
- Developed a networked rendition of 3 Card Poker in Java by following software development life cycle principles while utilizing the Model-View-Controller design pattern, which produced multiplayer functionality for up to four simultaneous players.
- Enhanced user engagement through the design of multiple game screens by integrating user feedback loops, ensuring a smooth gameplay experience

EXPERIENCE

Teaching Assistant   January 2023- Current
University of Illinois at Chicago
- Guided students in implementing data structures and optimizing algorithms for efficient memory management in C and assembly languages on platforms including Ubuntu.
- Provided personalized assistance during office hours on topics including machine language, memory hierarchy, and processor architecture, with a focus on Ubuntu-based development environments.
- Evaluated assignments and exams for over 100 students, emphasizing an understanding of data representation, heap manipulation, and memory security techniques within different operating systems.

TECHNICAL SKILLS

- **Programming Languages:** Java, C++, Python, C, JavaScript, PHP, HTML, CSS, MYSQL, Kotlin, x86-64, RISC-V, F#, OCAML, MATLAB, Dart
- **Developer Tools**: ReactJS, NodeJS, Express, Node JS, Git, Docker, Maven, JQUERY, Vim, C++ Builder, Flutter, Eclipse

INTERESTS

- Actively pursuing AWS Cloud Practitioner essentials, encompassing cloud concepts
- Independently studying Google Cloud Platform (GCP) and AWS to broaden cloud computing knowledge and skills.