Gaurav Gupta

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Overview

Software engineer with an experience of over 2 years on an Angular & ElectronJs based desktop client with voice, video and messaging capabilities. Very well versed with agile practices and version control systems. Despite of my considerable experience, I am also open to challenging new domains if opportunities seem to be exciting enough.

Experience

RAKUTEN GROUP, INC. | TOKYO, JAPAN | SOFTWARE ENGINEER | OCT 2020 - PRESENT

- **Project: LINK Desktop Client -** Voice, video and messaging application for Win & Mac systems.
  - **Major Development Work:**
    - **Fallback Mechanism:**
      - Session setup is a 16-stage process which involves 14+ APIs. Failure at any stage causes the complete failure, and user needs to go through the login procedure all over again.
      - Successfully developed a state machine based fallback mechanism. State of each visited stage has been recorded along with the tokens received during the process. Instead of starting the whole procedure again during any failure, a new starting point is decided based on the kept record.
      - No issue has been reported related to session setup after the deployment of this mechanism, and has significantly improved the session validity.
    - **Offline Application Approach:**
      - Successfully designed and developed application's offline behavior.
      - This involves internet state detection, handling of pending tasks which suffered due to internet fluctuations & user interaction management.
      - Overall user experience has been improved after the addition of this approach.
    - **Performance Improvement:**
      - Several API calls need to be made to perform a single action, all these calls were made randomly from a limited number of worker threads. This approach was leading to a bottleneck situation.
      - Successfully designed and developed an intelligent handler which segregates all the API calls based on priority of operation and dynamically creates dedicated worker threads.
      - Overall application's performance has been improved by 22% and time consumed to complete one of the major tasks has been reduced by 40%.
    - **Application Security:**
      - This responsibility has been given to me recently.
      - This involves regular static code analysis, fixing all the newly found vulnerabilities & security threats.
      - The number of open security bugs has been reduced by more than 50% and all the vulnerabilities has been resolved in static code.
  - **Other Work:**
    - Regularly taking part in unit test case writing using Jasmine & Karma, this activity has helped us to reduce the number of newly opened bugs by 20%.

Education

MASTERS OF TECHNOLOGY (ENGINEERING) AUG 2018 – JULY 2020	**INDIAN INSTITUTE OF TECHNOLOGY, HYDERABAD, INDIA**
BACHELORS OF TECHNOLOGY (ENGINEERING) JULY 2013 – JUNE 2017	**GGSIPU, DELHI, INDIA**

Tools & Technologies

- **Language:** Typescript, JavaScript, HTML, CSS.
- **Framework:** Angular, Electron Js
- **Unit Test Bed:** Jasmine, Karma
- **Tools:** GitHub, Jira, Confluence, SonarQube, Charles proxy.
- **Editor:** VS Code
- **Packages:** Jitsi, Retire.js

Interests

- Project Management
- Frontend & Backend development
- Docker
- Application Security
- Application Performance Improvement