ANUJ PRATAP SINGH YADAV

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Summary

Versatile Software Engineer with 10 years of experience in software development, cloud integration, and system design at Microsoft, Adobe, and Synopsys. Proven expertise in building scalable, reliable systems and enhancing user experience through innovative solutions.

Skills

- **Languages**: C++ | C | Java | C# | Objective C/C++ | JavaScript | TypeScript | Bash | TCL | jQuery | Node | Python
- **Domain**: Distributed Systems | Microservices | Backend/Frontend Development | Formal Verification | EDA | Datapath Validation
- **Tools & Frameworks**: Azure | Git | Perforce | CI/CD | GitHub Copilot | Curser | OOPs | Parallelism

Experience

Software Engineer II   Microsoft   *Noida, INDIA* 05/2021 – 05/2023

- **OneDrive Catalog Sku Filtering**
  - New Sku releases by Commerce are causing multiple high severity 2 incidents, impacting OneDrive upsell, with a 2-3- week production fix timeline.
  - Developed and Implemented solution to filter unsupported skus and allow only supported skus for OneDrive sales via catalog filtering and whitelisting.
  - Catalog filtering and whitelisting prevented OneDrive sales impact, saved time, and improved service reliability/stability.
- **Stream 2.0 Video insertion & playback in office docs**
  - Enabled insertion and playback of Stream 2.0 videos from SharePoint/OneDrive in Office documents.
  - Built and integrated Excel video playback module with seamless multi-service interaction. Enhanced video experience, boosting collaboration for M365 enterprise users.
- **PowerPoint Recording Studio Enhancements**
  - Renovate Recording Studio of PowerPoint with advanced capabilities (Exporting Video, camera background etc.) to increase user appeal and proclivity towards creating explainer videos.
  - Designed and implemented new camera modes and added the ability to blur the camera background in the user's live feed.
  - Increased the recording sessions MAU from 1.5M to 4.2M.
- **Cameo in Recording Studio**
  - Fixed camera position in recording studio obstructs slide content and limits impactful slide creation with integrated camera content.
  - Designed and Implemented Cameo (Customizable Camera object) during recording and editing options for shape, size and layout to optimize video with slide design.
  - Cameo insertion in recording MAU is 1.2M out of 4.2M recording sessions started.
- **Automation Explainer Videos in PowerPoint**
  - Led the automation crew for v1 release of Explainer Videos using Recording Studio in PowerPoint Win32 App.
  - Gathered knowledge of writing test cases and executing in PPT and shared with team to keep our feature away from regressions.
  - Created Plans for test driven development for features and contributed to keeping features in healthy state.
- Enriched system metrics by integrating the features with telemetry; facilitated in-depth logging for Explainer Videos Recording and Export events.

Staff Engineer   Synopsys   *Noida, INDIA* 05/2023 – Present

- **DPV: Formal Data Path Verification**
  - Enhancing DPV (Datapath Validation) formal verification tool for top clients (Nvidia, Intel, Apple, Bytedance etc.)
  - Designed & developed code coverage and over-constraint analysis features for C++ designs.
  - Designed & developed token-based licensing system in DPV enabling shared token usage across formal apps.
  - Enabled save/restore designs, and single design setup enhancements improving customer workflows.

SDE 2   Adobe   *Noida, INDIA* 08/2015 - 04/2021

- **Support Mathematical Expressions & Equations in AEM Docx Web Editor**
  - Added MathML library support for customers to create math expressions & equations and insert in the document as a SVG Image.
  - Enables and attracts customers working on Math Documents to use Web Editor.
- **Supporting user-based profiles to update AEM Docx Web Editor UI**
  - Designed and implemented the APIs to provide customers the functionality to upload user-based profile configs and honoring their preferences in Web Editor.
  - Enabled customers to configure the Editor UI according to their organization needs and requirements.

- **Improving performance for very large files where customer reported Freezing/Slowness in Web Editor**
  - Designed and implemented the lazy loading for files in Web Editor, which resulted in 60% reduction in overall loading time.
- **ColorPop in Photoshop Element**
  - Developed the **ColorPop** feature in Photoshop Elements to highlight key objects by keeping them colored while converting the background to black and white. Utilized the Photoshop Engine to implement object masking for precise highlighting.
  - Designed an **Auto Creation** workflow to identify suitable images based on predefined configurations, process them in the background, and notify users upon successful creation.
- **Migrated Elements from RIBS to Hyperdrive**
  - Redesigned the CI/CD pipelines create new executables having Hyperdrive environment. Created independent bundles for parallelization.
  - Elements Product Installation time on system significantly reduced by 50% on average.

Education

B.Tech (Computer Science) GPA (8.27/10)	**Maulana Azad National Institute of Technology (NIT Bhopal)**	*Bhopal, MP, INDIA*	**06/2011 - 05/2015**
12th (CBSE) Percentage (78%)	**Kendriya Vidyalaya Shivpuri**	*Shivpuri, MP, INDIA*	**04/2009 - 05/2010**
10th (CBSE) Percentage (85.6%)	**Kendriya Vidyalaya JRC Bareilly**	*Bareilly, MP, INDIA*	**04/2007 - 05/2008**

Achievements and Awards

- **Spot Award:** Received for Outstanding work in Elements Team for Migrating to hyperdrive.
- **Ranked 1st in Knight Coders in TechnoSearch (2012)**
- **Ranked 3rd in Code Pokers Held in TechnoSearch (2012)**
- **Maximum Rated 1974 on Codechef (Handle: newcoderr)**
- **Maximum Rated 1693 on Codeforces (Handle: newcoderr)**

Hobbies and Interest

- Competitive programming, Cricket, Football, Chess