

ANUJ PRATAP SINGH YADAV

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Summary

Innovative Software Engineer with 10 years of experience at Synopsys, Microsoft, and Adobe. Specializing in EDA Formal Verification, with expertise in high-performance C++ systems, formal verification platforms, and scalable design analysis for semiconductor leaders. Skilled in delivering efficient, user-focused solutions.

Skills

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

Experience

R&D, 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.

Software Engineer II

Microsoft

Noida, INDIA 05/2021 – 05/2023

- **OneDrive Catalog Sku Filtering**
 - Addressed high-severity incidents from unsupported SKUs impacting OneDrive upsell.
 - Implemented catalog filtering and whitelisting to allow only supported SKUs.
 - Improved service reliability prevented sales impact, and reduced fix timelines.
- **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**
 - Enhanced Recording Studio with video export, background blur, and customizable Cameo for seamless slide-video integration.
 - Boosted recording sessions MAU from 1.5M to 4.2M, with 1.2M using Cameo for improved video creation.
- **Automation Explainer Videos in PowerPoint**
 - Led the automation crew for v1 release of Explainer Videos using Recording Studio in PowerPoint Win32 App.
 - Enabled 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.

Member Of Technical Staff 2

Adobe

Noida, INDIA 08/2015 -

- **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**
 - Edit a picture by illuminating the important Object by keeping it colored and making all other objects black and white.
 - Designed and implemented the feature using Photoshop Engine by masking out the object to be highlighted and created Auto Creation running in background to recognize the images suitable for applying ColorPop on basis of configuration and push notification to user after 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)	<u>Maulana Azad National Institute of Technology (NIT Bhopal)</u>	<i>Bhopal, MP, INDIA</i>	06/2011 - 05/2015
12th (CBSE) Percentage (78%)	<u>Kendriya Vidyalaya Shivpuri</u>	<i>Shivpuri, MP, INDIA</i>	04/2009 - 05/2010
10th (CBSE) Percentage (85.6%)	<u>Kendriya Vidyalaya JRC Bareilly</u>	<i>Bareilly, MP, INDIA</i>	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