AMIT GUPTA

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SUMMARY

Hands-on CAD Engineer with over 10 years' experience in PDK development, EDA tools qualification, installation and environment management on Linux, Solaris, HP-UX, Integration of EDA tools for Custom IC design flow, LSF®, FlowTracer®, Perforce®, DesignSync and Git administration, and FlexLM® based license management and administration at GLOBALFOUNDRIES, Texas Instruments, ARM, AMD, Virage Logic.

Differentiators: Quick learner and out of the box thinker. Strong System Integration Skills. Strong understanding of CAD environment management and Custom IC Design Flow. Strong Collaboration skills. Project management using Rally, Azure Boards, Jira and Asana.

RECENT EMPLOYMENTS

Manager, Applications Development Engineering
VIZIO Services LLC   **Nov 2023 –Sep 2024, Addison, TX, USA**

- Adeptly learned the entire Smart TV stack including MTK SoC architecture, device layer (dtv_svc), platform layer, platform orchestration, Native UI framework, and a custom Chromium-based browser. Additionally, developed comprehensive learning materials to ensure rapid onboarding for new team members.
- Built and Managed 6+ members engineering team for development of apps for SVOD subscriptions and effectively communicated project issues and status updates to stakeholder TPMs and leadership. This effort required working with multiple teams in and/or across organizations.
- Re-architected VIZIO account and Companion library to decrease the load time from 7s to 2s and optimal deployment to 70+M TVs.
- Architected and developed boilerplate to develop VIZIO apps using Native UI framework.
- Collaborated with Release management team on planning the release of completed features to production TVs across multiple SoCs.
- Spearheaded the Agile transformation within the team, driving the adoption of best practices, tools, and metrics.
- Effectively communicated project issues and status updates in a concise, accurate, and professional manner, catering to the needs of senior leadership. Additionally, escalate blocking issues when necessary.

Solutions Architect |Client-Ford Motors
Compunnel Software Group   **Feb 2022 –Nov 2023, McKinney, TX, USA**

- Quickly grasped the details and functioning of ECUs, CAN, remote diagnostics and cloud telemetry, and, received appreciation for hitting the ground running.
- Architected solution for directed repair of DTCs, and, Managed the end to end delivery of this solution collaborating with cross-functional global teams across North America, effectively communicated project issues and status updates.
- Architected solution for transition of FCSD software from FlexLM based licensing to IAM RBAC based AA(authentication and authorization), and, Managed the end to end delivery of this solution collaborating with cross-functional global teams across North America, Europe, MEA and APAC, leading product demos and effectively communicated project issues and status updates.

Co-founder and Solution Architect
Crisptag Technologies Private Limited   **May 2018 – Oct 2021, Noida, India**

- Co-founded and built SaaS startup and built 20+ Full stack developer team from scratch for product development.
- Defined product requirements, implementation and go to market roadmap.
- Architected software solution and mentored developers in understanding the requirements, technologies and best practices.
- Managed product launch and scaled organization to 200+ clients, $20M ARR
- Developed CI/CD pipelines using Azure pipelines to deploy code to QA, Stage and Prod environments in Azure.

OTHER RELEVANT ACCOMPLISHMENTS

- Consistently recognized for my ability to rapidly learn and deliver results across diverse domains, earning multiple commendations at leading organizations such as HARMAN, GLOBALFOUNDRIES, ST-Ericsson, AMD, Texas Instruments, and Virage Logic.
- Quickly grasped details of Timing Analysis tools (Primetime®), Simulation tools (HSPICE®, HSIM®), Layout tools (Virtuoso®, Laker®), Physical verification tools (Hercules®, Caliber®, Assura®), parasitic extraction tools (Star-RCXT®), PnR tools (SoC Encounter®) and automated Custom IC design flow using Tcl/Tk, Perl, Python and JAVA AWT and Swing at Virage Logic, ARM and AMD.
- Managed FlexLM® based EDA licenses at Texas Instruments, GLOBALFOUDNRIES, Virage Logic, ARM and AMD and automated their deployment.
- Managed LSF® and FlowTracer® environments at Texas Instruments, GLOBALFOUDNRIES, Virage Logic, ARM and AMD in deep collaboration with IT Infrastructure team, and , automated their deployment.
- Installed and maintained EDA tools from Cadence, Synopsys, Mentor Graphics, Silvaco EDA tools in Linux, Solaris and HP-UX environment, and, integrated them with FlexLM licensing, LSF/FlowTracer for seamless run at Virage Logic, ARM, ST-Ericson,

GLOBALFOUNDRIES. Received Employee of month award at Virage Logic for this effort. Additionally, Developed EDA tools qualification suite at Virage Logic.

- Developed web-based dashboards for EDA licenses reporting using PHP at Texas Instruments, GLOBALFOUDNRIES, Virage Logic, ARM and AMD.
- Automated BugZilla bug filing on error in SoC Design Flow during runtime to speed up the tapeout at AMD and received recognition for hard work.
- Administrated Git, DesignSync®, Perforce® and CVS for code management and checks at GLOBALFOUDNRIES, Virage Logic, ARM and AMD.
- Developed multiple utilities in Tcl/Tk at GLOBALFOUDNRIES to automate post tapeout flow.
- Developed and Managed PDKs at ST-Ericson, Virage Logic, ARM and AMD.
- Developed Fluid GuardRing, Yank and Paste modules of Virtuso® as SMTS at Cadence Design Systems.
- Managed Tower, SMIC, UMC, Jazz, Sony, Samsung PDKs at Virage Logic.
- Managed POSIX ACLs to ensure adherence to US Export Control laws at GLOBALFOUDNRIES, Virage Logic, and AMD.
- Architected migration of Solr based enterprise search to AWS OpenSearch based system for managing vehicle recall information for Mercede-Benz USA at ATCS
- Managed project scope, schedules, while establishing key Performance Indicators (KPIs) to measure and monitor project progress, Collaborated in Scrum of Scrums and shared team progress, called out blockers, address impediments, resolve conflicts, and presented achieved milestones for Mercede-Benz USA at ATCS, UHCSR, UnderArmour and Symitar at HARMAN
- Developed UI modules for UHCSR's claim portal, GE Medical's Patient Portal, Chase's Internet Banking module, Maritz's loyalty rewards portal for its clients using React, Angular, AngularJS, EmberJS, PolymerJS, jQuery, HTML5, CSS3, Saas, Less at HARMAN, PHOTON.
- Developed Hybrid mobile apps using Ionic 4, React Native and packaging Angular 2/4 and VueJS SPAs using Apache Cordova for Symitar at HARMAN, Nike and Maritz at PHOTON and Crisptag Technologies
- Designed REST, gRPC, SOAP API contracts for backend integration using OpenAPI, Swagger , Postman Enterprise and ReadyAPI at VIZIO, Ford Motors, ATCS, and Crisptag Technologies
- Implemented REST APIs using Python with FastAPI, Node.js with Express and Fastify, Rust with reqwests at VIZIO, Ford Motors, ATCS, and Crisptag Technologies.
- Integrated SalesForce, ZOHO CRM, ZOHO Books, QuickBooks using Microsoft Power Automate for building ERPs and billing systems for clients at Crisptag Technologies.
- Developed WebEx's notification module using AngularJS, Kafka, Apache Spark for CISCO at Capgemini India.
- Implemented datalake using AWS Kinesis, S3 Aurora at ATCS, and Crisptag Technologies
- Developed CI/CD pipelines using Jenkins, Azure Pipelines, GitHub Actions, CircleCI, Bash/Zsh/Tcsh shell Scripts for multiple projects at VIZIO, Ford Motors, ATCS, and Crisptag Technologies, GLOBALFOUDNRIES, Virage Logic, ARM and AMD
- Orchestrated AWS, Azure and GCP cloud infrastructures using Terraform, Ansible, OpenShift, Puppet and Chef at VIZIO, Ford Motors, ATCS, UnderArmour and Symitar at HARMAN and Crisptag Technologies
- Mentored Algoji, The SolarLabs and Crescerance as consulting engineering leader in building strong engineering team and improving their engineering practices.
- Built SaasMart™ as SaaS marketplace through reseller partnerships with Google, Microsoft, ZOOM, ZOHO, Asana, SalesForce and 200+ other SaaS startups.
- Architected SaaS solutions for managing FreeRADIUS to manage the wifi-networks and route the calls using FreeSwitch.

EDUCATION

Bachelor of Technology (Computer Science and Engineering)
Guru Gobind Singh Indraprastha University • Delhi, India • 2005

TECHNICAL SKILLS

UI Development:	**TypeScript, JavaScript, HTML5, CSS3, Angular(v2,4,6,8,12,16), React, VueJs(v2.4,2.7,3), Svelte, Remix, Nuxt, Next.js, Sass, Less, Tailwind, Bootstrap, PHP (v3,4,5), JSP, ASP, Tcl/Tk and Qt**
Backend development:	**Python(v2.4,v2.7,v3) , Node(v12-22), Deno, Golang, Rust**
System Integrations:	**REST, RPC, gRPC, SOAP, IPC**
AuthTech:	OpenID Connect, OAuth2, FIDO, PassKeys
Build and code packaging:	Rollup, Webpack, Snaps, deb, rpms
Infrastructure as Code:	**Terraform, Puppet, Chef, Jenkins, GitHub Actions, Azure Pipelines, CircleCI, CloudFormation**
Cloud platforms:	**AWS, Azure, GCP, Digital Ocean**
Data Management:	MySQL, PostgreSQL, SQLite, Apache Cassandra
Big Data:	Apache Hadoop, Spark, Flume, Datalake and data mesh, Elastic Search, PowerBI, Tableau and Sumologic
Version Control Systems:	**Git (GitHub Enterprise, Azure Repos, Bitbucket, Gitlab), Perforce, DesignSync**
Generative AI:	OpenAI, Claude, Pi and Gemini
IoT systems:	AWS IoT, Google IoT, Azure IoT, BLE, MQTT, LoRaWAN, Zigbee, Kafka