KUMAR ABHISHEK

ABOUT ME

- Working as Senior Computer Scientist - II with Adobe, for Firefly services and GenAI products.

- 19 years of product development experience with MNCs (Adobe, Cisco, Samsung, Yahoo, Hewlett Packard, etc) and Start-ups (ErosNow, Bazaarvoice).

- Providing technical leadership for SaaS products of internet scale.

- Technical planning, on-time delivery, tech-debt ownership.

- Micro-services, REST APIs, server-less, auto-scaling, performance, security.

- Node.js, Go, Python, AWS, MongoDB, DynamoDB, etc based tech stack.

- E-Privacy regulations – CNIL (French Regulations)

- Web Accessibility – W3C-WCAG

- Agile methodologies, Technical Hiring, Mentoring.

EDUCATION

- Post-graduated from BITS, Pilani in 2009 with a MS degree in Software Systems.
- Graduated from R.V. College of Engineering, Bangalore in June 2005 with a B.E degree in Information Science and Engineering.

CONTACT

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SKILLS

- **Cloud**

  Amazon Web Service for **compute** (EC2, Fargate, ECS, ECR, Lambda, etc), **database** (RDS, Aurora, DynamoDB, Elastic Cache, S3, etc), network and content delivery (API Gateway, Cloudfront, Route53, VPC, Cloud Map, ALB, WAF, etc) to list a few.

- **Code**

  Production grade design and implementation of various **services** and **applications** using Node.js, Golang, Python, etc. Multiple aspects of **Clean Architecture**, and cloud design patterns. Supporting multiple HTTP protocols, **WebSocket** for real-time communication.

- **Micro Services**

  Highly scalable internal / external **APIs** (REST, WebSocket, GRPC), over **TLS** (HTTP 1.1, HTTP 2) running as **containerised** microservices on Amazon ECS and Kubernetes. Various kinds of authentication and authorisation system based on cookies and tokens securing endpoints. **Protocol Buffer** based encoding / decoding, etc.

- **UI**

  Various **Web** based UI and **PWA** using JavaScript (React.js, Lit, etc) passing **Core Web Vitals** (LCP, FID, CLS) and **Web Accessibility** (W3C WCAG). Various kind of **layouting** using CSS (Grid layout, Flexbox, Box model, etc).

- **Regulatory**

  Data privacy (e-privacy regulations) compliance for consent based first-party and third-party cookies (CNIL, CCPA) management. Meeting **VPAT** and W3C WCAG.

- **Tools**

  VS Code, Git, Lucidchart, NoSQL Workbench, Slack, Atlassian Jira, Atlassian Confluence, Markdown, Postman, AWS CLI, **Chrome Developer Tools**, etc.

EXPERIENCE

Adobe

Senior Computer Scientist - II | Mar 2021 - Present

- Building scalable API and services for first party Adobe flagship applications like Ps, Ai, Lr, etc and 3rd party enterprises for Firefly and GenAI capabilities.
- Leading team with architectural design for delivering milestones under organisational constraints and meeting OKR set by executive leadership team.
- Built commercialisation and metering system for generative credits management of various spectrum of Firefly API consumers.
- Guide and adopt technologies fit for the purpose including but not limited to Node.js, python, Golang, etc in a distributed systems with horizontal scalability, avoiding single-point of failure, security and all aspects of production grade considerations.
- Prototyping and building solution, feature, POC, etc for experimentation and innovation to improve and enhance current product and capabilities.
- Supporting talent acquisition team, performance review, etc.
- Collaborating and working with cross-geo teams including multiple time zones.

Bazaarvoice

Principal Engineer | Mar 2021 - Present

- Representing India technical leadership team for various product offerings and portfolio.
- Driving non-functional requirements such as performance, security, portability and scalability.
- Full-stack architecture, development, maintenance of solution using AWS, Google, Cloudflare, etc.
- Key leader for driving technological innovation and solving business problems for customer delight and retention.
- Regulation & Compliance leadership at organisation level for ePrivacy – CNIL & Web Accessibility – W3C WCAG.
- Part of technical leadership group for India-Bangalore initiatives.

Cisco Systems

Architect | Mar 2013 – March 2021

- Design and development of Cloud native application for Cisco Unified Communication Technology Group (UCTG).
- Identifying non-functional requirements such as performance, security, portability and scalability of the application.
- Full-stack architecture, development, maintenance of solution on AWS.
- Represent technical leadership team for co-ordinating with product management and other stake holder for cloud based UCTG telemetry solutions.
- Scrum, Agile methodologies.

Eros International

Technical Lead | Sep 2011 - Mar 2013

- Overall backend development of web applications (ErosNow & ErosNow Analytics) including Nodejs, JavaScript, VARNISH, HAProxy, Stunnel, NginX, EC2, etc on AWS.

- HTTPS – SSL Certificate, REST APIs for catalog (Movies / Music videos / Short Content, etc.)

- User/Session Management, Social Network Login

- Frontend development using HTML5, CSS3, JavaScript, Pug, etc.

- Movie Subtitles, Online Subscription, Advertisement (Preroll, Companion, etc.)

- Optimization & performance tuning for iPad & IE, Google Analytics.

Samsung

Lead Engineer | June 2009 – Sep 2011

- Leading a team of application framework development for SAMSUNG bada platform.

- Reviewing code changes, refactoring, optimizing codebase as per requirement.

- Worked for design & development of modules in webkit based Samsung mobile browser.

- Solving critical issues related to rendering, mentoring & training newcomers.

- Received "Super Saver Award" for contribution towards total cost reduction of mobiles by developing webkit based web-browser.

Yahoo

Senior Software Engineer | May 2008 – June 2009

- Design & development of yahoo alerts.

- Updating REST APIs as per application requirements.

- Participating in low-level design & architecture of component interfaces at API level.

- Contributing to code-review and unit-tests.

Hewlett Packard

Software Engineer | June 2005 – May 2008

- Unit-tests for APIs sanity checks supported by libIO on HPUX 11i.

- Porting various thread-unsafe components of libIO thread-safe using TLS.

- Key contributor and developer in IPMI team. Developed IPMI Tool in C++.