

JAI PRAKASH

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EDUCATION

IIT Mandi

B.Tech, Computer Science And Engineering

Mandi, Himachal Pradesh, India

Aug 2010 - Jun 2014

PROFESSIONAL SUMMARY

Senior Software Engineer with 10+ years of experience building scalable applications. Proficient in JavaScript, Node.js, React.js, Java, and Python, with a proven track record of optimizing performance and driving business outcomes through distributed systems and cloud infrastructure.

TECHNICAL SKILLS

Programming Languages: JavaScript, Java, Python, PHP, C/C++

Backend and Dev Tools: Node.js, Express.js, Kafka, ZooKeeper, Elasticsearch, MongoDB, Jenkins, Git, GitHub, Confluence, Jira

Frontend Libraries/Frameworks: React.js, Redux, Material UI, HTML5, CSS3, Webpack, Jest, Google Maps API

Monitoring & Logging: Splunk, Kibana, Prometheus, Grafana

Cloud & Infrastructure: AWS, Azure, Kubernetes, CosmosDB, Ansible

KEY ACHIEVEMENTS

High-Impact Projects: Delivered cross-platform solutions driving 30% of Walmart's holiday sales and improving content moderation with profanity detection.

Efficiency Gains: Led reusable component development, reducing dev effort by 35% and enabling faster launches.

Cost Optimization: Integrated Litmus email caching to reduce repeated previews by 80%.

Research & Innovation: Published research on cognitive models for automotive driving and built an interactive whiteboard.

Bravo Awards: Recognized multiple times at Walmart for delivering critical projects, optimizing costs, proactively resolving failures, and building high-impact services that drove holiday sales effectively.

WORK EXPERIENCE

Senior Software Engineer

Walmart Global Tech, Bengaluru, India

May 2018 - Present

- **Profanity Detection Service:** Developed a Python and Node.js based service to detect inappropriate content in communications, enhancing user safety and content moderation. Automated flagging reduced manual review time by 80%. (SmartComms team)
- **Image Management:** Built a scalable image management tool for uploading, deleting, and reusing images across multiple components, streamlining creation of the communications templates and reducing content duplication. (SmartComms team)
- **Config Management:** Implemented config-driven architecture for templates and components to externalize static values (e.g., URLs, headers, footers). Enabled runtime updates through configuration keys, eliminating component/template republishing and reducing deployment effort 95%. (SmartComms team)
- **Email Preview Optimization:** Integrated Litmus for email previews across commonly used clients, limiting to top 10 instead of 100+ to reduce API usage. Implemented caching and hashing mechanisms to reuse previews, resulting in over 80% cost reduction and significantly faster rendering of repeated previews. (SmartComms team)
- **Device Messaging Platform:** Took ownership of the Clojure-based Device Messaging Platform for push notifications via FCM/APNs after team transition. Led urgent migration to the new FCM API within a week's notice, preventing potential outage across 25+ teams and ensuring zero disruption. (DMP team)
- **SmartComms Studio:** Built a low-code drag-and-drop platform from scratch to manage multi-channel communications (Email, SMS, Push, In-App, WhatsApp). Led development of core features like component config, versioning, and rendering, and acted as primary POC for onboarding 50+ teams. Streamlined integration, reduced launch time from weeks to days, and enabled scalable message delivery across channels. (SmartComms team)
- **Fitment Widget:** Created a widget to help users find auto parts and tires based on vehicle specifications, boosting customer engagement by 20%. (Fitment team)
- **Deals Landing Page:** Designed and delivered a high-impact holiday deals page by building an orchestration layer to aggregate and personalize deals. Also built carousels and reusable UI components. Launched within a quarter, this page handled peak traffic and contributed to over 30% of total holiday sales. (Vertical team)

Software developer (MTS)

Vymo Solutions Pvt Ltd, Bengaluru, India

May 2016 - May 2018

- **CRM Service:** Built a Kafka-based service for real-time client data synchronization, enhancing customer interactions. Achieved over 90% adoption among application users.
- **Self Onboarding Service:** Built a self-onboarding service using Java, Node.js, and React.js to automate team onboarding, replacing manual config updates and deployments. Teams can now onboard by simply selecting desired dashboard features, eliminated manual effort for onboarding new teams.
- **Distributed Locking with ZooKeeper:** Implemented distributed locking for real-time config updates, ensuring system consistency.

Software developer

CommonFloor, Bengaluru, India

Jul 2014 - May 2016

- **SEO and Traffic Optimization:** Increased organic traffic by 20% by building SEO-friendly links by building recommended links based on landing page, indexed by Google.
- **Backend Development:** Developed scalable backend services using PHP, MySQL and MongoDB to support high-traffic applications

PROJECTS

- **Cognitive Model for Automated Driving:** Developed a cognitive model simulating human driving behavior using TORCS simulation. (C++, TORCS, ML) [Springer](#)
- **Interactive Whiteboard:** Transformed any projector into a touchscreen interface using C++ and OpenCV. [GitHub](#)

PUBLICATIONS

- Understanding Human Driving Behavior through Computational Cognitive Modeling. [Springer](#)

EXTRACURRICULAR ACHIEVEMENTS & ACTIVITIES

- **Inter IIT Volleyball Participant:** IIT Mandi (2011)
- **Inter Branch Volleyball Winner:** IIT Mandi (2012)
- **B.Tech Project(First Prize):** Team won first prize for building interactive whiteboard.

CODING PROFILE

Leetcode: [Link](#)