

# Shubham Halle

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Product-focused software engineer with 7+ years of experience shipping end-to-end features across frontend and backend systems. Strong background in JavaScript, React, with hands-on backend experience in Java, NodeJs and Python. Experienced working with globally distributed teams and comfortable aligning working hours to ensure significant daily overlap. Passionate about building tools that empower independent creators and organizations through open source contributions.

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## EXPERIENCE

### FourKites Inc, Remote — Sr. Software Engineer I & II

NOVEMBER 2022 - PRESENT

Building Facility Management solutions (Agent Alan, Appointments Manager, Yard & Gate Automation) as part of lean engineering teams, contributing across the full stack.

#### Backend Work:

- **AI Agent Alan:** Owned end-to-end development of agentic AI appointments booking system, including backend services, workflow orchestration, notification systems, and React frontend. Built RESTful APIs and integrated with Java/Python microservices.
- **Alerts & Notification Infra:** Designed & implemented Email & SMS based notifications infrastructure which involved multiple microservices trying to notify users. Implementation involved changes in Java, Python Services, Workflows & Kafka Topics along with 3rd party integrations such as Twilio & SendGrid.
- **Gate Automation Kiosk:** Designed and implemented real-time WebSocket-based communication layer for unmanned trucks check-in/out system. Built backend services handling QR code validation and state management by integrating with 3rd party QR devices.
- **API Development:** Contributed significantly to backend features across services in Java, Python, including database query optimization and service integration patterns.

#### Frontend & Architecture:

- **Appointments Manager:** Led 4-member frontend team delivering self-signup portal & features such as bulk shipment uploads, multilingual support (i18n), and real-time stakeholder comments.
- **Mobile-First Transformation:** Architected and converted carrier portal into responsive Angular web app, achieving 60%+ mobile adoption.
- **Design System:** Contributed core components to company-wide UI library, establishing patterns adopted across 6+ frontend repositories.
- **UI Performance:** Reduced UI load times by 45% through advanced caching strategies, query optimization, and bundle optimization across Appointments Manager/YMS.

#### Infrastructure & Quality:

- Established 90%+ unit test coverage across repos using Jest, Playwright, and Python test frameworks.
- Built CI/CD pipelines and automated deployment workflows.
- Piloted POCs including WebSocket-based live data refresh and Sendbird chat integration.

**Tech Stack:** React, Vite, Angular, TypeScript, Node.js, Java, Python, Playwright, Jest

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### Light & Wonder, Pune — Software Engineer

SEPTEMBER 2017 - NOVEMBER 2022

Part of B2B online casino platform engineering team connecting In-house & 3rd party game providers with global operators.

- **RGS Proxy Service:** Led end-to-end development of scalable Java-based containerized proxy service handling configuration for 2000+ operators across jurisdictions. Designed database schema, implemented caching layer, and established deployment patterns using Docker.

- **Frontend Integration Adapters:** Developed and maintained TypeScript/React-based custom frontend adapters for operators to host games, handling complex state management and API integration.
- **Backoffice UIs:** Designed and developed management interfaces for support team.

**Tech Stack:** TypeScript, React, Java, Docker, Jenkins, MySQL, REST APIs

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## Crelio Health, Pune — Jr. Software Developer

**MAY 2017 - SEPTEMBER 2017**

- Redesigned and built support dashboard for LiveHealth.in SaaS healthcare platform, improving usability and operational efficiency for support team.
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## SKILLS

**Frontend:** React, Angular, TypeScript, JavaScript, HTML, CSS, SASS

**Backend:** Node.js, Express, Java, Python, REST APIs, Microservices

**Databases:** MySQL, PostgreSQL

**Tools & Infrastructure:** Git, Docker, Kubernetes, Jenkins, CI/CD, NPM, Vite, Webpack

**Testing:** Jest, Jasmine, Playwright, Test Automation

**Design:** Figma, Component Libraries, Design Systems

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## OPEN-SOURCE & PROJECTS

### VolunteerConnect — Open-Source CRM for Nonprofits

**Website:** [volunteerconnect.shackyapps.in](https://volunteerconnect.shackyapps.in) **GitHub:** [github.com/halleshubham/VolunteerConnect](https://github.com/halleshubham/VolunteerConnect)

Relationship management and contact database platform built for nonprofit organizations.

- **Full-Stack Ownership:** Built complete Node.js + MySQL application handling thousands of contacts for multiple nonprofit organizations.
- **Database Architecture:** Designed relational schema for contact management, event tracking, and communication history.
- **Backend Services:** Implemented RESTful APIs for contact CRUD operations, search/filtering, bulk imports, and data export.
- **Frontend:** Built responsive React interface with advanced filtering, tagging system, and batch operations.
- **Impact:** Enabled nonprofits to maintain regular connections with thousands of volunteers and donors.
- **Roles:** Product Manager, Developer, DevOps, QA — wearing all hats throughout product lifecycle.

**Tech Stack:** Node.js, Express, MySQL, React, Docker

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### JAP — WordPress Automation Utility

**GitHub:** <https://github.com/halleshubham/JAP>

Open-source automation tool for WordPress-based publishing workflows.

- Reduced weekly magazine publishing effort from 14+ hours → 3 hours through automated content processing.
- Built Python scripts for WordPress API integration, content transformation, and scheduling.
- Added HTML newsletter generation and WhatsApp automation, doubling publication reach in 3 months.
- Demonstrated ability to build tools that improve publishing workflows — directly relevant to Ghost's mission.

**Tech Stack:** Node.js, WordPress API, Automation

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## Self Hosting & Other Items

I've always loved self hosting many open source services, on need basis.

- For organisational needs: n8n Social Media & Lead Notification Automation
  - For private cloud storage: NextCloud
  - For web publishing: Wordpress & Ghost
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## FIND ME ONLINE

**LinkedIn:** <https://www.linkedin.com/in/halleshubham/> **GitHub:** <https://github.com/halleshubham>

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## EDUCATION

**MIT College of Engineering, Pune** B. Engg. (IT) | 2013 - 2017 | CGPA: 7/10