Harshwardhan Patil

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Overview

Frontend Engineer (Angular) with 3+ years' experience building **scalable, accessible, and high-performance** web applications. Specialized in **Angular (CLI, Material, RxJS)**, **D3.js** data visualization, reusable UI systems, and **performance/accessibility** improvements (ARIA). Solid grounding in **API integration** (REST/JSON), **secure auth** (JWT, CORS, CSRF), and lean **CI/CD** to ship reliably (**50+ zero-rollback** releases). Mentors engineers and aligns implementations with clean frontend architecture.

Education

University of Texas at Arlington   *Expected May 2026*
Master's in Software Engineering

- Coursework: System Design, Software Testing, Cloud Computing, AI/ML with Python, Distributed Systems

Technical Skills

Languages: TypeScript, JavaScript, Java, Python, SQL

Frontend: Angular (CLI, Material, RxJS), D3.js, HTML5, CSS3, Responsive Design, Lazy Loading, Routing Guards, Component Reusability, Accessibility (ARIA)

Testing & Quality: Jasmine, Protractor (E2E), SonarQube, Postman, Chrome DevTools

API & Auth (Integration): REST APIs, JSON, JWT, CORS, HTTPS, CSRF, RBAC

Build/Deploy (for FE): Docker, Jenkins, GitHub Actions, GitLab CI/CD

Datastores (for FE integration): PostgreSQL, MySQL, MongoDB, Redis

Cloud (light usage): AWS (EC2, S3, RDS), Nginx

Working Knowledge: Spring Boot, Node.js, Kafka (basic), Kubernetes (basic)

Professional Experience

Software Engineer, Clarivate Analytics – Bangalore, India   *Aug 2023 – Aug 2024*
Full-Time

- **Reusable UI Platform:** Built a configurable Angular table system (dynamic columns, saved prefs, chips/side-panels, Excel export) that **cut duplicate UI code by 80%+** and accelerated feature delivery.
- **Advanced Filtering UX:** Delivered a two-pane dynamic filter UI with interdependent logic, reset-to-last-applied state, chips, and clear-all — improving discoverability and user task completion.
- **Data Visualization Library:** Authored reusable **D3.js** components (bar/stacked/line/pie) with pluggable options (legends, tooltips, labels), standardizing charts across modules and reducing maintenance.
- **Perf/Exports:** Implemented PPT/PDF export with **RxJS forkJoin** and streaming to handle large reports, reducing timeouts and improving business consumption.
- **Quality & Release:** Sustained **90%+** FE test coverage (Jasmine, SonarQube) and shipped **50+ releases with zero rollbacks** via lean CI/CD (Docker, Jenkins); partnered with BE on API contracts.
- **Mentorship:** Coached 2 junior Angular devs (pairing, reviews, patterns), **doubling** their sprint throughput and improving code quality.

Associate Software Engineer, Clarivate Analytics – Bangalore, India   *Aug 2021 – Jul 2023*
Full-Time

- **Feature Delivery:** Built Angular charting (D3.js) and reusable table components integrated with REST APIs for advanced search/reporting.
- **Frontend Performance:** Adopted lazy-loaded modules and optimized state/immutability patterns, **reducing initial load times by 30%.**
- **Accessibility:** Implemented ARIA roles, semantic HTML, keyboard navigation — raising Lighthouse a11y to **95+**.
- **Security on FE:** Implemented secure client flows (JWT, CORS, CSRF), input sanitization, and error handling patterns to reduce incidents.
- **Design System:** Standardized chart/filter modules and docs, adopted across **5+** modules; cut onboarding time by **50%**.

- **Quality:** Drove FE coverage to **90%+** (Jasmine, Protractor) and reduced production bugs by **25%**.

Projects

Employee Management System (EMS) 🎧 🌐   *Dec 2024 – Present*
A cloud-hosted Angular dashboard with real-time metrics, secure auth, and CI/CD-backed releases.
Angular, Spring Boot (APIs), Chart.js, PostgreSQL, AWS (EC2/RDS), Docker, Jenkins
- Built Angular dashboards and forms consuming REST APIs with filtering, pagination, and sorting.
- Automated FE/BE pipelines (Jenkins) for quick, reliable releases; integrated Dockerized builds.
- Implemented auth-aware UI (JWT, guards, interceptors) and consistent error/empty/loading states.
- Designed Chart.js visualizations for department/employee metrics; improved decision visibility.

Battle Arena – Multiplayer Artillery Game   *May 2024 – Present*
A browser-based Angular + Phaser experience with scalable matchmaking and real-time gameplay.
Angular 17, Phaser 3, WebSockets (Socket.io), Node.js (RT services), Spring Boot (profiles/leaderboard), MongoDB, Docker
- Integrated **Phaser 3** within Angular for smooth turn-based rendering, input handling, and scene management.
- Implemented real-time matchmaking and status UI with WebSockets; handled concurrent players and state sync.
- Built reusable UI modules (lobbies, leaderboards, HUD) and route guards for session/auth flows.
- Containerized FE/RT services for consistent local dev and CI/CD readiness.

Better Finance – Hackathon (UTA)   *Mar 2025*
An AI-assisted finance UI with Plaid integration, OCR receipts, and insights.
Angular, Flask APIs, Streamlit (prototyping), PostgreSQL, Plaid API, Docker
- Built Angular flows for secure bank-linking and transactions view; used Plaid sandbox for testing.
- Added OCR-based invoice uploads and insight panels; clarified spend patterns and budgets.
- Produced a quick prototype dashboard in Streamlit for judges; packaged with Docker for demos.

Certifications

- AWS Certified Solutions Architect – Associate (2025)
- AWS Certified Developer – Associate (2025)
- AWS Certified Cloud Practitioner (2025)
- Oracle Certified Professional: Java SE 17 Developer (2025)