

RAVI ANAND KUMAR

FRONTEND TECH LEAD · SENIOR FULLSTACK ENGINEER · ANGULAR, TYPESCRIPT, PYTHON

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Portfolio: ravianand1988.github.io | German Permanent Residence, no sponsorship required

Summary

Frontend Tech Lead with 12+ years in software engineering, the last 6+ years at byrd, an e-commerce 3PL, building the shared Angular and TypeScript platform that four production applications and ~309k lines of TypeScript are built on. Top contributor to byrd's design system and its eight domain packages, original author of its Admin dashboard, and the engineer who carried the inventory, delivery and shipment domains across the seller and warehouse dashboards for six years. Ships backend as well as frontend: Python services and a Java to Kotlin migration. Custom Claude Code tooling in daily use by the frontend team.

Employment

byrd technologies GmbH, Berlin, Germany

Oct 2019 – Present

Frontend Tech Lead (Aug 2024 – Present) · Sr. Frontend Engineer (Oct 2022 – Jul 2024) · Frontend Developer (Oct 2019 – Sep 2022)

E-commerce 3PL: 12 fulfillment centers across the EU and UK, 7M+ products shipped a year. Engineering ~45-50 across Berlin, Vienna and remote.

Tech: Angular, TypeScript, RxJS, NgRx, Node.js, Python, Java, Kotlin, PostgreSQL, AWS, Docker

- Owned byrd's shared frontend platform: federkleid, the design system (77 components, 166 icons, runtime theming, form and data-table frameworks), plus 8 co-versioned Angular packages holding the domain logic. Four production apps and ~309k lines of TypeScript build on it, so a shipment, a storage location or a return is modelled once instead of four times
- Carried the inventory, delivery and shipment domains across both dashboards for six years: Customer (88k LOC) for online sellers, covering inbound, outbound, returns, reporting and the Shopify, Amazon, eBay, Mirakl and WooCommerce integrations, and Partner (77k LOC) for warehouse operators, covering B2B and B2C picking and packing, storage locations and zones, returns processing and floor label printing
- Bootstrapped byrd's Admin dashboard from its first commit and maintained it for five years: shipment lookup and error resolution, user and permission management
- Owned three platform subsystems outright: the type-safe forms layer (form extensions, validators, 16 field components), the list and filter framework every data table in every app is built from, and the icon system
- Led the migration that gave the platform its shape, moving auth, product, lot, storage and shop-migration state out of per-app service code into the shared packages, flag-gated one domain at a time, deleting the legacy forms behind it
- Ran four Angular major upgrades (v11, v14, v16, v17), each landed across six repositories as one coordinated migration, which is what kept the shared packages shareable; centralised ESLint, Prettier and Stylelint into shared configs across the same six
- Wrote the shared frontend build tooling in @getbyrd/build-tools: one command giving four apps the same versioned build, a translation linter, and the CI gate that fails any build containing a skipped spec across ~9,900 Karma/Jasmine tests
- Built byrd's white-label Returns Portal with two others, the only public-facing surface: end consumers look up a shipment, choose a return reason and generate a label, in seven languages, branded per merchant at runtime. Sold as a paid add-on and live since 2020 (refurbeddirect.return-order.com)
- Designed and built Storage Zones alone behind a feature flag, from the form and its identifier validation through assignment to the discard-confirmation flow, with the state layer landing in the shared inventory package so other surfaces could reuse it
- Shipped 18 merged changes into byrd's Python warehouse service (Flask, SQLAlchemy, Marshmallow) from 2022 to 2026: delivery-document endpoints, storage and product APIs, schema and carrier changes, more than half the diff in tests. Enough to keep the frontend and backend contract an informed conversation rather than a handover
- Led the migration of byrd's Android warehouse app (picking, packing, putaway, returns) from Java to Kotlin, and reviewed pull requests on it throughout
- Interviewed 20-25 frontend candidates and hired and onboarded 4-6 engineers into a frontend group that peaked at 8 to 10; mentored a further 4-6 engineers across teams through code review and pairing

- Wrote byrd's frontend plugin for the internal Claude Code marketplace: branch creation and implementation planning as agent skills, plus a map of the eight frontend repositories to the domains they own and the rules that cross them, which doubles as the estate's architecture documentation

Assistr Digital Health Systems GmbH, Berlin, Germany

Oct 2017 – Sep 2019

Software Developer

Tech: Vue.js, JavaScript, Python, Django, PostgreSQL, AWS, Docker

- Joined AssistMe at inception as one of the first engineers, in a team that grew from 3 to around 10, building a sensor-based care platform for nursing staff in German care homes. Owned design and development of both the backend and the frontend, from early R&D through alpha and beta trials in live care homes.
- Built the Django and Django REST Framework backend: REST API endpoints, core domain modules, internal admin panels, and the PostgreSQL data model, deployed on AWS with Docker and CI/CD.
- Set the frontend architecture and built the Vue.js/ES6 web app and shared component library test-first with Jest, using Vuetify and SCSS.

AppFlow Solutions, Faridabad, India

Aug 2015 – Sep 2017

Software Engineer

Tech: C#, ASP.NET MVC, JavaScript, Azure, MS SQL

- Built DIM (Data Input Manager), a web-based intranet application for a US hospitality client (C#/ASP.NET MVC), including the Profit & Loss synopsis module, Azure AD authentication, and automated daily file processing via Azure Logic Apps and Functions

INF India Pvt. Ltd, Faridabad, India

Dec 2013 – Sep 2015

Software Engineer Intern

Tech: C#, JavaScript, jQuery, CSS, HTML, Azure, MS SQL

- Built RESTful APIs, the web frontend, and the SQL Server database layer (stored procedures, triggers) for a loyalty card management system

Key Skills and Knowledge

FRONTEND Angular, TypeScript, JavaScript, RxJS, NgRx, HTML, CSS, Component-Driven Architecture, Design Systems

BACKEND Python (Flask, SQLAlchemy, Django), Node.js, Java, Kotlin, C#/.NET, REST APIs, PostgreSQL, MS SQL

CLOUD & DEVOPS AWS, Docker, Kubernetes, CI/CD, Azure

TESTING Karma/Jasmine, Jest, Test-Driven Development, CI Quality Gates

LEADERSHIP Team Mentoring, Hiring & Onboarding, Coding Standards, Code Reviews, Technical Documentation

TOOLS Git, Jira, Storybook, Renovate

AI-ASSISTED ENG. Claude Code, GitHub Copilot, OpenAI Codex, LLM Agents & Sub-agents, Custom Dev Tooling/Plugins

Additional Experience

Family Business ERP - FMCG Wholesale & Distribution

Independently built and operated · in production since 2019 · ~90 consumer brands

- Built and still operate an ERP (WinForms/.NET, EF6, SQL Server) that runs day-to-day operations for a regional FMCG wholesale distributor: inventory, purchase and sales orders, sales returns, and GST invoicing
- Leading a zero-downtime strangler-pattern migration to Angular + ASP.NET Core/EF Core (SQL Server → PostgreSQL planned), extracting GST/invoicing rules from UI code into a service layer while old and new run concurrently

Education & Languages

EDUCATION IGNOU, Master of Computer Applications (2015) · NIIT, Diploma in Software Engineering (2011)

LANGUAGES Hindi (Native) · English (Fluent) · German (B1, working toward C1)