

# Naveen Kumar

Lead software developer with deep expertise in designing and developing scalable, cloud-native and cost-optimized solutions. Leading engineering efforts at Amadeus in the travel domain, with past contributions in automotive and consumer electronics. Skilled in cloud platforms, microservices architecture, containerization, performance optimization, CI/CD & resilient system design. Experienced in applying SAsE, DevOps practices and modern engineering tools to drive technical excellence and deliver business impact.

## Relevant Experience

### Lead Developer, **Amadeus** Sep 2018 - Present

Airline Inventory Platform | Air France, British Airways, Emirates, Singapore Airlines, Japan Airlines and 400+ major global Airlines

- Redesigned and modularized the application to reduce development complexity, decouple dependencies, and simplify deployment.
- Lead requirement assessments and help shape new features, ensuring gaps, risks, and dependencies are identified early.
- Migrated the application, database, and supporting services to the cloud.
- Implemented cloud-based authentication and authorization solutions to ensure secure access control
- Track cost trends and forecast usage, identify and optimize cloud resources to improve efficiency
- Manage auto-scaling policies and set up real-time alerting mechanisms to monitor system performance
- Automate routine tasks using Jenkins, Python, Azure DevOps and ArgoCD
- Design and implement solutions with a strong focus on performance, stability, scalability, adaptability, user experience and practical applicability
- Propose and implement improvements for system stability process efficiency and security on an ongoing basis

### Senior Developer, **Harman** Dec 2015 - Aug 2018

Integrated Navigation System | Honda

- Designed and developed key navigation features like Favorites, Previous Destinations, GPX import/export and real time guidance.
- Optimized CPU usage of the navigation engine to improve overall infotainment system performance.
- Built an efficient rendering mechanism for large datasets like POIs to reduce latency and enhance user experience.
- Performed design and requirement reviews in collaboration with cross-functional teams.

### Senior Developer, **Bosch** Oct 2013 - Nov 2015

Car Infotainment System | PEUGEOT

- Designed and developed audio features for infotainment systems including source prioritization, volume/mute management and sound mode switching.
- Implemented efficient algorithms to manage seamless transitions between multiple audio sources.
- Developed spatial and ambiance sound presets for enhanced in-car audio experience.
- Automated test scenarios using test adaptors and TML scripts to simulate HMI behavior and validate functionality.
- Wrote shell scripts to automate development and testing workflows, improving productivity.
- Participated in bug fixing, code reviews and design validation.

### Software Engineer, **HCL** July 2011 - Sep 2013

BRAVIA smart tv | SONY

- Developed core HMI features for Sony BRAVIA smart TVs including initial setup (Network, country, channel tuning, etc.)
- Implemented remote control event handling across multiple TV applications to ensure consistent UX.
- Wrote shell scripts to automate build, deployment and validation tasks in the development environment.
- Involved in bug fixing, sequence diagram design and activity flow definition.

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Portfolio: [www.naveenkhnn.com](http://www.naveenkhnn.com)

## Skills

### Architecture

Microservices, Event driven, Serverless, Component-Based, Client-Server, MVC

### Web Frameworks

React, NodeJS, Flask, Django

### Programming Languages

C++, Java, Python, JavaScript

### Databases

Oracle, Azure Cosmos, MySQL, Mongo

### DevOps & Cloud

Docker, Kubernetes, OpenShift, Argo CD, Gitops, Jenkins, Git, GitHub, Bitbucket

### Data Processing & Analytics

ELK Stack (Elastic Search, Logstash, Kibana), Splunk, Grafana

### Certifications

Azure Developer, Azure Dev-ops

### Security Protocols

OpenID Connect (OIDC), Kerberos, SAML

## Github Projects

<https://github.com/naveenkhnn>

## Education

### Rashtreeya Vidyalaya College of Engineering (RVCE), Bangalore

Bachelor of Electronics and communication

## Interests

Mountain climbing, Science podcasts, Music