

Harvad (Hongzhi) Li

Software Engineer - Visualization & UI/UX

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Profile Summary

Software engineer with 5+ years building visualization systems and user interfaces for complex technical environments. Currently specializing in real-time monitoring dashboards and automotive UI at ECARX. Strong track record bridging technical and business teams, facilitating communication across international and Swedish colleagues. Experienced in full-stack development from mobile (Android/Xamarin) to cloud-native infrastructure. Passionate about cloud technologies, Linux, Raspberry Pi development, and AI integration. Proven ability to deliver complete solutions from business requirements to production deployment.

Core Technical Skills

- **Visualization & UI:** Grafana, Prometheus, React, Next.js, Vue.js, Chart.js, real-time dashboards
- **Mobile Development:** Android (Kotlin/Java), Android Auto, React Native, Xamarin (C#), cross-platform
- **Backend & APIs:** Spring Boot, .NET/C#, Node.js, RESTful APIs, WebSockets, microservices
- **Cloud & DevOps:** AWS, Azure, Docker, Kubernetes, CI/CD, cloud-native architecture
- **Programming:** Kotlin, Java, C#, JavaScript/TypeScript, Python, Go, Bash
- **Databases:** PostgreSQL, MySQL, MongoDB, SQLite, ApsaraDB RDS
- **Systems:** Linux administration, Raspberry Pi development, embedded systems
- **AI & Innovation:** AI integration, LLM applications, Edge TTS, automation
- **Soft Skills:** IT-business communication, international team collaboration, technical translation
- **Languages:** Fluent English and Mandarin, Swedish B2 level

Working Experience

ECARX — Senior Infrastructure & Performance Engineering Specialist

October 2024 - Present — Gothenburg, Sweden

- I'm currently developing real-time performance monitoring dashboards using Grafana and Prometheus to give our Android AOSP build systems a clear, at-a-glance health check.
- One of my key projects involves building visualization tools to better understand our infrastructure metrics. We've already seen a 3.5x improvement in performance visibility!
- I enjoy crafting user-friendly web interfaces for monitoring our automotive testing platforms. This includes visualizing emulator data for vehicles like the Polestar 4 and 5.
- A big part of my role is working closely with hardware engineers and testing teams. Together, we're designing intuitive UI for automotive validation workflows that everyone can easily use.
- Successfully bridged the gap between technical data and non-technical users by creating clear, actionable visualizations for complex system performance.
- I've been heavily involved in designing and implementing UI/UX improvements to our monitoring tools, always striving for a better and more efficient user experience.
- Communicating effectively with international teams and our Swedish colleagues is crucial, ensuring everyone is aligned and informed throughout the development process.
- Helped streamline automotive validation processes by building monitoring interfaces that provided faster, more accurate feedback to the team.

Synteda — Mobile App Developer & Azure Integration Specialist (Freelance)

August 2023 - September 2024 — Gothenburg, Sweden

- Spearheaded the integration of a full Microsoft solution for Mibo.se, leveraging C#.NET for the backend, a React-based frontend, and Azure cloud services to power their talent management platform.
- Collaborated closely with the Mibo.se team to translate their business workflows into a robust and scalable architecture, ensuring the platform effectively met their talent management needs.
- Developed key features for Mibo.se's talent management platform, bridging the gap between business requirements and technical implementation with a focus on user experience and efficient workflows.
- Independently built native Android applications using Kotlin to extend Mibo.se's talent management capabilities to mobile users.

IT-Högskolan — Mobile DevOps Support (Part-time)

January 2023 - May 2023 — Gothenburg, Sweden

- Supported mobile development teams with DevOps infrastructure for Kotlin, Flutter, and React Native projects
- Helped migrate Omställningsstod.se platform backend, ensuring smooth mobile app integration
- Collaborated with developers to optimize API connectivity and deployment pipelines for mobile applications

Senior Material (Europe) AB — Mobile Platform Architect

January 2022 - December 2022 — Eskilstuna, Sweden

- Led migration to microservices architecture optimized for mobile consumption
- Designed RESTful APIs with Android SDK compatibility and efficient mobile data serialization
- Worked with cross-functional teams to optimize applications for Android performance and battery efficiency

Pembio AB — Mobile App Developer

October 2020 - September 2021 — Lund, Sweden

- Developed native Android and iOS applications for Pembio.com platform using Java, Kotlin, and Swift
- Built mobile deployment pipelines and app store distribution workflows for both platforms
- Implemented mobile-specific features including push notifications, offline sync, and biometric authentication

Key Projects

Crypto_Wallet_Xamarin

2024 - Present — Xamarin, C#, Blockchain APIs, Mobile Security

- Developed secure cross-platform cryptocurrency wallet application using Xamarin and C# stack
- Implemented advanced mobile security features including biometric authentication and secure key storage
- Integrated multiple blockchain APIs for real-time cryptocurrency transaction processing
- Built responsive UI components optimized for both Android and iOS platforms with .NET MAUI

AndroidAuto_AI_Bot

2025 — **Android Auto, Kotlin, EdgeTTS, LLM, AI Integration**

- Designed distraction-free voice-first UI for in-car AI assistant with LLM integration
- Built native Android Auto interface with real-time AI processing and Edge TTS voice synthesis
- Implemented custom wake-word detection and natural language understanding for automotive safety

Gothenburg_TaxiPooling_MobileApp

2025 — **React Native, Spring Boot, PostgreSQL, Geolocation**

- Developed cross-platform carpooling app with real-time geolocation visualization and route mapping
- Implemented interactive UI for passenger matching, ride tracking, and real-time status updates
- Built Spring Boot microservices backend with RESTful APIs for mobile consumption

SmrtMart.com_E-commerce

2024 - Present — **Go, Next.js, PostgreSQL, Microservices**

- Built comprehensive admin dashboard with real-time sales analytics and inventory visualization
- Implemented interactive charts and graphs for business metrics using modern UI frameworks
- Created responsive design with intuitive navigation and real-time order tracking

Weather_Anywhere.CLOUD

2024 - Present — **Spring Boot, Alibaba Cloud ECS, ApsaraDB RDS (MySQL)**

- Developed weather visualization platform with interactive UI for Swedish and global cities
- Deployed on Alibaba Cloud infrastructure with optimized API usage and caching mechanisms
- Demo: <https://weather.bluehawana.com>

AndroidAuto_CarTVPlayer_KOTLIN

2025 — **Kotlin, Android Auto SDK, ExoPlayer, Automotive APIs**

- Designed native Android Auto media player with automotive-optimized UI controls
- Implemented intuitive interface compliant with Android Auto design guidelines and safety standards
- Integrated voice command processing using Android Speech Recognition

Raspberry_Pi_Home_Automation

2023 - Present — **Python, Linux, IoT, Raspberry Pi**

- Built home automation system using Raspberry Pi with sensor integration and remote monitoring
- Developed Python-based control interfaces and real-time data visualization dashboards
- Implemented cloud connectivity for remote access and mobile app integration

Education

IT Högskolan — Bachelor's in .NET Cloud Development — 2021-2023

Mölndal Campus — Bachelor's in Java Integration — 2019-2021

University of Gothenburg — Master's in International Business and Trade — 2016-2019

Certifications & Continuous Learning

- AWS Certified Solutions Architect - Associate (2022)
- AWS Certified Developer - Associate (2022)
- Microsoft Azure Fundamentals (2022)
- Active in cloud-native development community and Linux Foundation
- Continuous learning: AI/ML integration, Kubernetes, advanced Raspberry Pi projects

Additional Information

- **Technical Interests:** Cloud-native architecture, Linux systems, Raspberry Pi development, AI integration
- **Community:** Linux Foundation member, open source contributor, tech blog author
- **Personal Website:** bluehawana.com
- **Driver's License:** Valid Swedish license for in-vehicle testing