

SHANTANU KULKARNI

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OBJECTIVE

Software Developer with **7 years of experience**, including **4 years of professional work experience**, passionate about building next-generation, scalable applications with clean architecture and a user-centric mindset. Actively seeking full-time opportunities as a **Full-Stack Engineer** or **Software Development Engineer**.

EDUCATION

Universität Konstanz – M.Sc. in Computer and Information Science 2021 – 2024
Konstanz, Baden-Württemberg, Germany

K.J. Somaiya College of Engineering (Somaiya University) – B.E. in Information Technology 2013 – 2017
Mumbai, Maharashtra, India

SKILLS

Programming Languages	JavaScript (ES6+), TypeScript, Python, Dart, Java, C#, SQL
Frameworks	React, Next.js, Flutter, LWC, Node.js, Express.js, Redux
Platforms	Salesforce (Service & Community Cloud), Google Cloud Platform, Firebase, Vercel
Databases	PostgreSQL, MongoDB, Firebase, Redis
DevOps & Tools	Git, CI/CD, Agile (Scrum/SAFe), Postman
APIs	REST, GraphQL
AR/VR	OpenXR, Oculus SDK, ARCore, Vuforia, Unity
Design	Canva, Figma (UI/UX)
Languages	English (Fluent), German (A2)

EXPERIENCE

Student Research Assistant Jul 2023 – Present
Development & Inclusive Education Group, Universität Konstanz *Konstanz, Germany*

- Preprocessed video data and performed **emotion detection** and **motion energy analysis** using **Python** and **OpenCV** to study group dynamics and behavioural synchronization **among 183 children** (ages 7–10). Collaborated closely with researchers to deliver actionable insights.
- Independently developing a web-based platform using **React**, **Next.js**, **Node.js**, **Firebase**, and **Google Cloud** for the **Freundschaftsprojekt**. The platform streamlines survey administration for researchers and provides teachers with real-time analytics on classroom social dynamics, including improvements in student interactions after a 6-week program. The platform aims to significantly reduce manual data-reporting time and effort by an estimated **40% or more**.
- Developed experimental prototypes using **Vive Avatars**, **SteamVR**, and **OpenXR** to assist researchers in studying inclusion and exclusion behaviours among diverse groups of children in immersive virtual environments, thereby extracting meaningful insights into social dynamics.

Application Development Senior Analyst Nov 2017 – Sep 2021
Accenture Solutions Pvt. Ltd. *Mumbai, India*

- Led a team to automate client onboarding** across SAP systems and Salesforce for the largest US-based wine and spirits company by leveraging **Salesforce Community Cloud**, **Flows**, **Lightning Web Components (LWC)**, and **React Components**. Achieved a **15–20%** reduction in onboarding costs and safeguarded revenues during the COVID-19 pandemic, earning the **Pinnacle Award for Continuous Innovation and Agility**.
- Spearheaded the development and deployment** of **Salesforce Service Cloud** and **Community Cloud** solutions, including a distributor-facing service community portal. Implemented skill-based case routing to ensure support tickets were directed to the most suitable agents, **significantly reducing average case resolution times** and **enhancing overall support efficiency**.
- Developed dynamic, customer-facing interfaces using **JavaScript**, **Lightning Web Components (LWC)**, and **Apex**, ensuring **responsive design** and an **intuitive user experience**. Championed **Agile (SAFe)** methodologies and led **DevOps workshops**, implementing **CI/CD pipelines** and industry best practices to deliver high-quality, scalable software solutions.

PROJECTS

Sustainability Hub

June 2024 – September 2024

Sustainability Department/Green Office, Universität Konstanz ([Explore Sustainability Hub](#))

Konstanz, Germany

- **Independently developed a web platform** for digital networking that enables sustainability enthusiasts to discover and collaborate on sustainability initiatives. Leveraged **Next.js**, **Firestore**, **React**, and **Google Cloud Platform (GCP)** to build the platform.
- Delivered the project in **approximately 50% of the estimated time** and at approximately **75% of the quoted budget** compared to vendor proposals, demonstrating exceptional cost-efficiency and project management skills.
- **Designed a minimalist, user-friendly interface** to enhance project visibility and engagement, ensuring that the platform met stakeholder requirements and sustainability objectives through continuous collaboration and feedback.

ReCoDeXR: Remote Collaboration for Designers using Handheld AR and VR

April 2023 – August 2024

Master's Thesis & UPES Hackathon Winner ([ReCoDeXR Project Demo](#))

Konstanz, Germany

- **Independently developed ReCoDeXR**, a cross-collaborative AR/VR platform leveraging **Oculus Interaction SDK**, **ARCore**, and **Photon** to enable real-time remote collaboration for architects and interior designers during early design stages. This solution aimed to accelerate interior design processes and enhance collaboration. The concept **secured first place at the UPES Hackathon**, highlighting practical applications of AR/VR-based real-time remote collaboration in architecture, design, and beyond.
- **Collaborated with architects** to evaluate the platform through a user study. The platform revealed significant improvements in workflow efficiency, sense of presence, and collaboration quality compared to traditional remote tools like Zoom and phone calls. This demonstrated how ReCoDeXR made early design discussions more immersive and productive.

CERTIFICATIONS

Salesforce Certifications

Salesforce Certified Administrator
Salesforce Certified Platform Developer 1
Salesforce Certified Service Cloud Consultant
Salesforce Certified Field Service Lightning Consultant
Salesforce Certified AI Associate
Salesforce Certified AI Specialist
[View my Salesforce Trailhead Certifications](#)

Language Certification

Goethe-Zertifikat German A1 (Basic German proficiency)