

# Prajwal Vilas Urkude

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🌐 [prajportfolio.vercel.app](https://prajportfolio.vercel.app) </> [leetcode.com/u/Synonymous](https://leetcode.com/u/Synonymous)



## EDUCATION

- **Rheinland-Pfälzische Technische Universität (RPTU)** Kaiserslautern, Germany  
*Master of Science in Computer Science — Focus: Software Engineering & Intelligent Systems*  
Oct 2025 – Present
- **Rashtrasant Tukadoji Maharaj Nagpur University** Nagpur, India  
*Bachelor of Technology in Information Technology — CGPA: 8.3/10 (GPA: 1.8 German)*  
May 2021 - Aug 2024

## TECHNICAL SKILLS

- **Languages:** Java, C++, Python, JavaScript, TypeScript, SQL, Solidity
- **Web Technologies:** React.js, Next.js 14, Node.js, Express.js, Redux, Tailwind CSS, ShadCN UI, REST APIs
- **Cloud & DevOps:** Docker, Kubernetes, AWS, Google Cloud Platform, CI/CD, Git, GitHub Actions, Vercel
- **Databases:** MySQL, MongoDB, PostgreSQL, Redis, Prisma ORM, PlanetScale
- **Frameworks:** Spring Boot, Hibernate, Maven, TensorFlow, OpenCV, Langchain, Hardhat
- **Core Competencies:** Microservices, System Design, Agile/Scrum, API Design, Blockchain, Performance Optimization

## RESEARCH PAPERS

- **Paper Title:** *Multi-domain Content Generation Using Advanced Machine Learning Techniques.*  
**Conference:** The 8th International Conference on Information and Communication Technology for Intelligent Systems, ICTIS 2024.  
**Journal:** Springer Nature.  
**DOI:** [10.1007/978-981-97-6675-8\\_45](https://doi.org/10.1007/978-981-97-6675-8_45)  
**Abstract:** This research paper investigates the integration of Artificial Intelligence in modern web development. It compares the efficiency and effectiveness of various AI-based frameworks and tools used by developers today. The paper focuses on the challenges, opportunities, and impact on development speed and project scalability ([Presentation Certificate](#)).

## PROFESSIONAL EXPERIENCE

- **Contabo GmbH** Munich, Germany (Remote)  
*IT Content Migration - Working Student*  
Jan 2025 - Present
  - Executed enterprise CMS migration from Contentful to Payload CMS for 50,000+ users across 15+ markets with 99.8% data integrity
  - Built modular subdomain system enabling dynamic provisioning of 20+ localized microsites, reducing deployment time by 70%
  - Optimized content delivery with Next.js ISR and edge caching, reducing page load times by 55% (4.2s to 1.9s)
- **DiGITS IN-TECH** Nagpur, India  
*Technical & Career Development Head*  
June 2023 - July 2024
  - Orchestrated 5+ hackathons and coding competitions with 500+ participants, increasing technical community engagement by 60%
  - Designed and delivered 10+ workshops on AI and cloud computing, training 200+ students in emerging technologies
  - Mentored 30+ students in career development, resulting in 85% improvement in technical role placement rate
- **LetsGrowMore** Remote, India  
*Java Backend Developer Intern*  
Aug 2023 - Oct 2023
  - Engineered scalable RESTful APIs using Spring Boot and Hibernate, serving 10,000+ daily requests with 99.5% uptime
  - Optimized MySQL database queries and indexing, reducing query execution time by 40% and response time by 35%
  - Implemented microservices architecture for 3 core modules, enhancing system modularity and deployment efficiency by 50%
- **ITNetworkZ Infosystems Pvt Ltd** Remote, India  
*Salesforce CRM & Full-Stack Developer Intern*  
Feb 2022 - Apr 2022
  - Developed custom Apex classes, triggers, and Visualforce pages for 5+ CRM solutions, reducing manual processing time by 60%
  - Integrated third-party systems using REST/SOAP APIs, enabling seamless data synchronization across 4 platforms
  - Built 3 responsive web applications using React.js, Next.js, and Node.js, serving 1,000+ active users with 98% satisfaction
- **GirlScript Summer of Code** Remote, India  
*Open Source Contributor & Campus Ambassador*  
Apr 2024 - Aug 2024
  - Contributed extensively to open-source projects, implementing features that measurably improved application performance
  - Organized 3 technical workshops reaching 200+ students, increasing open-source participation by 60% across campus

KEY PROJECTS

- Nexus - Multi-Tenant SaaS Platform

Full-Stack Developer

- Engineered scalable multi-tenant SaaS platform supporting 100+ agency accounts with isolated data and custom subdomains
  - Integrated Stripe Connect for payment processing, handling \$50K+ monthly transactions with 99.9% success rate
  - Optimized database queries with Redis caching, reducing page load time by 60% (3.5s to 1.4s)

Next.js, Prisma, MySQL, Stripe

2024
- Prodigy - AI Content Generation Platform

AI/ML Engineer & Full-Stack Developer

- Developed 5 AI modules (conversation, code, image, video, music) using GPT-4, DALL-E, and Stable Diffusion APIs
  - Implemented expressive AI with sentiment analysis and contextual memory using Redis and Pinecone vector database
  - Designed microservices architecture handling 1,000+ daily requests with 200ms average response time

Next.js, OpenAI, Redis, Pinecone

2024
- BlockChat - Decentralized Messaging DApp

Blockchain Developer

- Developed Solidity smart contracts for secure P2P messaging with end-to-end encryption on Ethereum blockchain
  - Implemented MetaMask wallet integration and Web3.js, achieving 100% data integrity with zero server dependency

Solidity, Hardhat, Ethereum

2023

HONORS & ACHIEVEMENTS

- Google Cloud Arcade 2024:** Premium Tier status (top 5%); completed 15+ advanced cloud computing labs
- Google Cloud Gen AI Challenge:** Winner for innovative AI solution among 500+ global participants
- LeetCode:** Solved 365+ daily challenges consecutively (2022 & 2023); 1800+ rating, top 10% globally
- Competitive Programming:** Top 25/200 at Ode to Code Hackathon; 500+ problems solved across platforms

CERTIFICATIONS

- Cloud & DevOps:** Google Cloud Platform Fundamentals, AWS Cloud Practitioner
- Development:** Advanced React Patterns, Next.js 14 Architecture, Node.js Microservices
- AI/ML:** Machine Learning Specialization, Deep Learning with TensorFlow
- Languages:** English (C1 - CEFR), German (A1 - CEFR, pursuing A2)

Currently enrolled at RPTU Kaiserslautern-Landau with valid residence permit and work authorization. Available for flexible part-time hours in hybrid/remote setup, with immediate availability in the Kaiserslautern area.