

# YUVA PHALLE

## Software Engineer with Full Stack, DevOps, and Cybersecurity Experience

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Open B Permit (valid work permit)



Full Stack Developer with 4+ years of experience building secure, scalable software across cloud, DevOps, and cybersecurity domains. Passionate about clean code, automation, and solving real-world problems with modern tech stacks.

## EXPERIENCE

### Software & DevOps Engineer

#### Hacking-Lab AG

Aug 2022 – Present

Zurich, CH

- Designed and developed 100+ cybersecurity challenges simulating real-world attack scenarios using Python, Bash, and Docker.
- Built internal tools and scripts to automate challenge deployment, user provisioning, and event workflows across Linux, Windows, and macOS systems.
- Created and maintained CI/CD pipelines in GitLab to streamline releases and infrastructure updates, reducing deployment time by 60%.
- Led delivery of 15+ global Capture-the-Flag (CTF) events and cybersecurity trainings for 1,500+ participants, ensuring scalable platform operation.
- Conducted QA and code review for platform content, improving release stability by 30% and reducing user-facing issues.
- Built 30+ custom Docker images and virtual environments tailored for red/blue team exercises.
- Supported 3,000+ users via Discord, Jira, and email, maintaining a 95% satisfaction rate and improving onboarding experiences.
- Recorded step-by-step walkthroughs and technical tutorials for the global Hacking-Lab learning community (3,000+ views).

### Technical Solutions Engineer

#### Hacking-Lab AG

Sep 2023 – Present

Zurich, CH

- Collaborated with enterprise and academic clients to deliver tailored cybersecurity training solutions, integrating platform features with client needs.
- Led 35+ live technical demos showcasing platform capabilities (CTF delivery, Docker infra, Keycloak auth), accelerating customer onboarding and adoption.
- Authored and contributed to technical proposals (RFPs) for projects exceeding CHF 250K, aligning solutions with infrastructure, compliance, and security goals.
- Collected product feedback from clients and mapped it into platform roadmap improvements, including automation features and UI/UX fixes.
- Conducted hands-on cybersecurity workshops and training sessions, improving client security maturity and usage of platform tools.
- Assisted with technical architecture discussions, deployment guidance, and API integration for client environments.
- Supported cross-functional teams with market research and competitive analysis to enhance platform positioning and feature design.

## LIFE PHILOSOPHY

*"Make improvements, not excuses. Seek respect, not attention."*

## SKILLS

### Programming & Frameworks:

- Languages: Python, JavaScript, Bash, Java, PHP
- Web & App Frameworks: Django, Flask, Spring Boot, React, Next.js, Tailwind
- Mobile Development: React Native, Android (Java), Android Studio

### DevOps & Infrastructure:

- CI/CD: GitLab CI/CD, GitHub Actions, Terraform, Ansible
- Containerization & Orchestration: Docker, Docker Compose, Kubernetes
- Cloud Platforms: AWS (Amplify, Cognito, Lambda, AppSync, S3), Azure, Heroku
- Identity & Access: Keycloak, OAuth2, AWS IAM, JWT

### Databases & APIs:

- Databases: PostgreSQL, MongoDB, SQL Server, DynamoDB
- API Design: RESTful APIs, GraphQL, Role-Based Access Control (RBAC)

### Security Engineering:

- Penetration Testing, Secure Coding, Threat Modeling, Reverse Engineering
- Tools: Ghidra, Wireshark, Burp Suite, YARA, MITRE ATT&CK, tcpdump

### Collaboration & Product Skills:

- Agile Development, Mentoring, Stakeholder Communication, Market Research
- Technical Demos, RFP Writing, Customer Support (Jira, Discord)

## Startup Thesis – SpotLot: Peer-to-Peer Parking Platform

### SIT / Schaffhausen Institute of Technology

📅 Feb 2021 – Jul 2022

📍 Schaffhausen, CH

- Built a full-stack cross-platform app (“SpotLot”) for reserving and listing parking spaces, inspired by the Airbnb model.
- Developed web (Next.js + Tailwind) and mobile (React Native) apps with real-time navigation, filtering, and reservations.
- Engineered a scalable, serverless backend using AWS Amplify, Lambda, DynamoDB, Cognito, S3, and AppSync (GraphQL).
- Implemented secure login, user role management, and CRUD workflows with real-time updates and AWS IAM policies.
- Conducted market research (83+ survey responses), competitor analysis, and beta testing with 11K+ Google views.

## Teaching Assistant – Cyber Protection

### SIT / Constructor Group

📅 Sept 2021 – Feb 2022

📍 Schaffhausen, CH

- Assisted students with labs and assignments in cryptography, Android security, fuzzing, and access control.
- Provided one-on-one support and technical guidance to deepen students’ understanding of complex security concepts.

## Capstone Project – Full Stack Developer

### SIT – M.S. Program

📅 Sept 2020 – Jan 2022

📍 Schaffhausen, CH

- Developed “EasyPeasy,” a collaborative recipe-sharing web app using Django (backend), PostgreSQL (database), and React (frontend).
- Led Agile sprints with Git, Miro, and Slack for planning and coordination across a distributed team.

## MOST PROUD OF



### Google Bug Bounty

Reported and validated a moderate-level Android vulnerability



### Hackathon Winner

First Prize at START HACK EU 2022 (Team NOOBS)



### Athletics

University-level cricket and zonal-level athletics participation

## REFEREES

Available upon request.

## LANGUAGES

English (Professional)

German (Basic)

Marathi (Native)

Hindi (Native)

## EDUCATION

### M.S. in CS & Software Engineering

#### Schaffhausen Institute of Technology

📅 2020 – 2022

### M.S. in Information Security

#### ITMO University

📅 2018 – 2020

### (Erasmus) M.S. in InfoSec

#### Tallinn University of Technology

📅 2019 – 2020

### B.S. in Computer Application

#### Symbiosis University

📅 2015 – 2018