

HAKKI RIZA KÜÇÜK

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EXPERIENCE

Technology IT Specialist

07.2024 – 12.2024

ISELIN AG

Aargau, Switzerland

- Managed Odoo ERP to optimize inventory workflows and industrial processes.
- Administered Windows Server, Active Directory, Entra ID, Docker, and Linux systems.
- Developed and maintained the WordPress homepage and e-commerce features.
- Provided IT support and technical training to non-technical staff.
- Ensured business continuity by applying regression tests on ERP, authentication, and server infrastructures.

Software Engineer

03.2022 – 01.2024

SIGA Services AG

Lucerne, Switzerland

- Implemented a photogrammetry pipeline for 3D scanning of construction sites.
- Developed mobile apps, web apps, and backend services using Swift/Kotlin, HTML/CSS/JS, C#, Azure.
- Designed automated and manual test scenarios and conducted performance and accuracy assessments for mobile, web, and 3D measurement applications.

Lead Developer / Maintenance Owner

06.2020 – 01.2021

MR.SIP (Open Source)

Remote, United Kingdom

- Developed test scenarios and load-testing scripts to validate tool reliability and stability.
- Refactored and modernized an obsolete SIP security tool; improved performance by 1000x.
- Enabled the project's use in cybersecurity research; participated in a presentation at DEF CON 28.

Junior Developer

04.2018 – 10.2018

Additiv AG

Zurich, Switzerland

- Executed UI regression tests for fintech interfaces and delivered fixes for critical issues.
- Developed frontend interfaces for financial products using JS/React.
- Collaborated with business units for requirements analysis.

INTERNSHIP

ML & 3D Visualization Engineer

06.2021 – 09.2021

Inspire AG

Zurich, Switzerland

- Built a 3D HOFIM[®] model with virtual sensors for predictive maintenance.
- Integrated models into ML pipelines for automated monitoring.

EDUCATION

B.A. Computational Linguistics & Philosophy

2021 – 2024

University of Zurich

GPA: 4.7/6

B.Sc. Computer Engineering

2015 – 2019

S.K. Muğla University

GPA: 3.8/6

SELECTED PROJECTS

Secure MPC with TEEs — Python, ZeroMQ

- Developed secure multi-party computation prototypes in collaboration with Oxford researchers.

Stock Analysis Dashboard — Python, Javascript, Matriks, Metabase

- Developed a data collection, processing, and analytics pipeline to deliver an interactive online analysis dashboard.

3D Factory Simulation — Python, Blender

- Built a configurable 3D factory facility; computes 4000+ configurations with a web interface and viewer.

3D Kitchen Configurator — Python, Javascript, Blender

- Developed a 3D kitchen configurator that showcases marble, quartz, granite, and wood materials with physically accurate real-time rendering adapted to the customer's lighting and layout conditions.

SKILLS

QA & Testing: Test automation, integration testing, API testing, functional/regression testing, performance testing, CI/CD test steps **Test Tools:** Selenium, Playwright, Postman, JMeter, Cypress, PyTest, unittest **Web:** React, Mithril, Svelte, Node.js, ASP.NET, Blazor, REST APIs, HTML, CSS, SEO, Wordpress, NGINX, Apache, Flask, Django **Programming:** Python, C/C++17+, C#, JavaScript, TypeScript, Swift, Kotlin, SQL, Bash, Shell **ML/NLP:** PyTorch, NLTK, Scapy, feature engineering, data processing, embedding pipelines **Systems:** Linux, Windows Server, Active Directory, Entra ID, Docker, CI/CD, Git, Ansible **3D/Visualization:** Blender, BabylonJS, WebGL, Photogrammetry, 3D pipelines **Tools:** Azure, Odoo, Wordpress, MySQL, PostgreSQL, GunDB **Languages (Human):** Turkish (Native), English (C2), German (C1)