

# Aamir Ali

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## SUMMARY

Full Stack Software Engineer with more than 2 years of experience working as a freelancer. Experienced in C/C++, Java, Python, and Rust with a solid portfolio of 60+ delivered projects. An internship at CERN, the birthplace of the World Wide Web.

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## EXPERIENCE

### Freelance Software Engineer

Fiverr

April 2021 – Present, Lahore, Punjab

- Materialized 20+ fully functional desktop applications including OtoDecks and LibMS in Java, JavaFX, C++, QT, C#, Python, and Tkinter.
- Initiated and launched 10+ web applications including CrypTop and Algebrix using Python, Django, and Javascript.
- Engineered 15+ automation and analytics tools in python including Excel-to-PPTX, MIQ NZ automation, and OpenLDAP mass operator.
- Managed a portfolio of 60+ projects with 40+ clients, programmed in 5 languages and 10+ different tools, libraries, and frameworks.

### Summer Student

CERN

June 2022 – September 2022, Geneva, Switzerland

- Deployed OPA (Open Policy Agent) to enforce custom policies, introduced and enforced 40+ OPA policies and helm charts.
- Automated the deployment process using Git, CERN registry, Helm, and Kubernetes; saved 80% of the deployment time.
- Authored 50+ network policies to secure the Kubernetes services from unnecessary network access.
- Deployed Vault to secure secrets in Kubernetes and architected python scripts to streamline secret creation from files and access control configuration in Vault, minimizing secret generation errors, time, and intervention by 90%.

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## PROJECTS

### FirePatrol

September 2022 – May 2023

- Pioneered an AI-based autonomous fire-fighting robot framework, to detect, extinguish, and report fires in real-time, enhanced time-to-detect fire by 50%, and improved firefighter safety by 90%.
- Trained, optimized, and compared 5 different AI models: YOLO, Efficient Net, MobileNet, RetinaNet, and Faster R-CNN.
- Conducted successful trials in a simulated real-world environment, and observed an improvement in response time by up to 25%.
- Directed a team of 4 members, gained hands-on experience in project management, software development, and agile methodologies.

### CrypTop

January 2022 – April 2022

- Conceptualized and developed CrypTop, a web-based platform to facilitate cryptocurrency analysis and ranking by integrating data from over 10000 coins and 600 exchanges.
- Evaluated and ranked cryptocurrencies based on 5 parameters gathered in real-time from 2 APIs, CoinMarketCap and Coingecko.
- Introduced 5 filters to select frequently used data, reducing data processing time by 60%, and incorporated an email-sending service.
- Landed website, received feedback, revised & fine-tuned the performance of the website by 20% by caching frequently used data.

### OtoDecks

January 2022 – April 2022

- Crafted OtoDecks, a DJ audio player application that enabled users to play more than 20 audio files simultaneously, with more than 10 control functions for each audio playing.
- Optimized desktop space to incorporate a range of controls using shortcuts and drag-n-drop reducing time to complete tasks by 20%.
- Conducted testing to ensure functionality and usability, boosted user satisfaction by 40%, and decreased complaints by 35%.
- Delivered the product on time, within budget yet exceeding the user expectations, achieving 100% positive feedback.

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## EDUCATION

### Bachelor of Computer Science

University of Engineering and Technology • Lahore, Punjab • 2023 • 3.69

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## SKILLS

**Technical Skills:** Database, Full-Stack Web Development, RESTful API development, Software design and development, Software Engineering, Artificial Intelligence (AI) & Machine Learning (ML), Web Technologies.

**Programming Skills:** C/C++, Java, C#, Python, Go, Rust, SQL, Object Oriented Programming, Design Patterns, Solid Design Principles.

**Tools:** VS Code, Visual Studio, IntelliJ Idea, QT, Google Colab, Linux, Git, Github, GitLab, Docker, Containerization, Kubernetes Security.

**Industrial Skills:** Project management