

# Rai Tabish

+923039222567 ◇ [raimuhammادتabish@gmail.com](mailto:raimuhammادتabish@gmail.com) ◇ [LinkedIn](#) ◇ [Portfolio](#)

## SKILLS

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**Languages & Frameworks** C#, .NET, Java, JavaScript, TypeScript, C++, C, Python, Go, SQL, MySQL, HTML, CSS, Express, React, Flask, Unity, Android Studio, Bash, node

**Technologies & Tools** AWS, Azure DevOps, Kubernetes, Docker, Git, CI/CD, Linux, Cloud Computing, Game Development, Parallel and Distributed Systems, ETL, Web Scraping

**Data Science & Machine Learning** PyTorch, TensorFlow, OpenCV, Scikit-Learn, PyMC3, Pandas, NumPy, Statistical Modeling, Language Models, Regression, DSA, Knowledge Graph

## EXPERIENCE

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### Freelancer

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Jan '23 — Present

- Achieved Level 1 badge in a month.
- Completed 15+ projects involving data processing and image recognition with Python, C++, and OpenCV, consistently achieving 5-star client ratings. Built efficient data pipelines for desktop applications using ETL processes to optimize data ingestion, storage, and retrieval.
- Led technical decisions to optimize data ingestion and retrieval, achieving up to 30% faster processing for client applications by refining ETL processes.

### Technology Program Intern

Knodemy

Aug '24 — Present

- Created curriculum on programming fundamentals and data structures for young learners.
- Building a Learning Management System with a focus on content delivery, UI/UX, and responsive design.
- Designed and built a cloud-enabled Learning Management System, incorporating scalable data models and responsive UI for optimized content delivery.

### Game Development Intern

AirDev (Remote)

Jan '22 — Apr '22

- Learned Unity and Blender on the go while developing 3D game mechanics. Led the development of 3D game mechanics in a remote startup.
- Built and optimized game data structures.

### CS Lab Demonstrator

FAST NUCES Islamabad

Jan '23 — Nov '23

- Evaluated and facilitated weekly labs for a cohort of 50+ students enrolled in the Programming Fundamentals (C++) course.
- Received positive feedback from students, indicating a strong ability to effectively communicate and support their learning journey.

## PROJECTS

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DataKaleidos - Final Year Project, FAST [Link](#)

- Developed robust data pipelines tailored for Consumer Packaged Goods (CPG) using big data technologies, enabling seamless access to sentiment and trend analysis. Leveraged data modeling techniques to optimize storage, enhancing user engagement by 70%.

Thermal Camera Controller [Link](#)

- Built a live feed camera controller using Flask, Python, and OpenCV, leveraging the SDK for the Coin612 thermal camera. Enabled real-time monitoring and efficient data processing for thermal imaging application
- Implemented real-time image processing, optimized for cloud deployment, enabling remote access and real-time analysis and surveillance.

Car Rental Site, GitHub

- Designed a responsive car rental platform using the MERN stack, achieving a 2-second page load time and seamless user experience. Integrated REST APIs capable of handling over 500 concurrent requests without downtime, showcasing performance optimization and scalability.

Society Management System, GitHub [Link](#)

- Developed a C# application with MySQL backend, incorporating Google notifications and form integration. Streamlined user management and automated notifications to enhance user engagement and operational efficiency.

Portfolio Site [Link](#)

- Built a fully responsive portfolio website using React, showcasing projects and technical skills in an engaging layout. Integrated features, dark/light theme toggle. Emphasized clean code and reusable components. The site is deployed over GitHub pages updating continuously.

EDUCATION

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<b>Bachelor of Science in Computer Science</b> , FAST NUCES Islamabad	Aug '21 — Present Islamabad, Pakistan
<ul style="list-style-type: none"><li>Relevant Courses: Artificial Intelligence, Statistical Modeling, Blockchain, Data Engineering, Database Management, Computer Networks, Information and security, Ethical Hacking, Data Structures &amp; Algorithms, OOP, Operating Systems, C++ Program Design, Database Management Systems.</li><li>Extra-Curriculars: Head sponsorship of Computing Society - Organized and managed 20 labs, each accommodating over 60 students, fostering a conducive learning environment and facilitating practical application of theoretical concepts.</li></ul>	
<b>Fellow of Science in Pre-Engineering</b> , IMCB I-8/3 (GPA: 3.48)	2019 — 2021 Islamabad, Pakistan
<ul style="list-style-type: none"><li>Achieved top rank in the class, with a curriculum focused on core subjects like mathematics, physics, and chemistry, aimed at building strong analytical and technical skills essential for engineering fields.</li></ul>	

CERTIFICATIONS

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<b>Understanding Cloud Computing</b> Data Camp	Aug '24
<b>Introduction to Natural Language Processing in Python</b> Coursera	Aug '01
<b>Understanding Microsoft Azure</b> Data Camp	Sep '24
<b>Google AI Essentials</b> Google	Oct '20
<b>Intermediate SQL</b> DataCamp	Feb '22
<b>Introduction to Kubernetes</b> DataCamp	Oct '24
<b>Google Data Analytics</b> Coursera	

AWARDS

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<b>Best Urdu Debater</b> IMCB-I/8-3 Being awarded the best debater in an inter-college debating competition with the topic of 'Education Builds the Nations'.	May '13
<b>Bait Bazi Competition</b> The inter-college poetry competition was organized by Bazm-e-Paigham Rawalpindi with over 50+ colleges all across Islamabad and Rawalpindi.	Jul '17

VOLUNTEERING

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<b>Summer Volunteer</b> , TCF	Islamabad Jan '01
Volunteered with TCF’s summer camp program, leading extracurricular activities in select schools across Pakistan to enhance students’ teamwork, creativity, and confidence.	
<b>Organizer</b> , NUCES	Islamabad Jan '01
Assisted in organizing the 2023 university orientation, guiding new students in navigating their academic paths and campus life as a junior volunteer.	