

PROFILE

Third-year Computer Science undergraduate with hands-on internship experience in backend engineering, applied AI research, and full-stack development. Completed three software engineering internships across academia and industry.

EDUCATION

FAST National University of Computer & Emerging Sciences <i>BS in Computer Science</i>	Karachi, PK August 2023 – June 2027
Sceptre College <i>GCE A Levels in Mathematics, Physics, Chemistry, Computer Science, Further Mathematics</i>	Karachi, PK August 2021 – June 2023

SKILLS

Languages: Python, SQL, JavaScript, TypeScript, HTML, CSS, Bash, Shell, YAML, JSON, Markdown, LaTeX

Frameworks: FastAPI, Django, Flask, ReactJS, Next.js, Express.js, React Native, Flutter, Jest, Pandas, NumPy

Tools & DB: Git, Docker, AWS, PostgreSQL, MongoDB, Postman, Selenium, Vercel, Nginx, Swagger

Interests: AI, Backend, Open Source, DevOps, Refactoring, QA, Automation, Agile, API Docs, Serverless, Cloud, CI/CD

WORK EXPERIENCE

Folio3 Software <i>Software Engineering Intern</i>	Karachi, PK July 2025 – September 2025
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- Competed successfully against 142 applicants to secure one of 37 spots in a rigorous 9-week hybrid internship.
- Built and deployed an AI mock interview platform using Next.js, PostgreSQL, and OpenAI Realtime SDK on Vercel.
- Placed runner-up in the final showcase, presenting detailed technical design and business value to leadership.
- Rotated across product, backend, DevOps, QA, and GenAI tracks, delivering features at each SDLC stage.

E.ocean Developers Day 2025 – ACM NUCES

<i>Executive, Team Automation</i>	Karachi, PK March 2025 – April 2025
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- Updated and executed a Python email dispatch script, delivering timely communications to all event attendees.
- Built, deployed, and stress-tested a React + Vite certificate generator, issuing 700+ certificates in real-time post-event.
- Engineered a logging utility and monitoring dashboard to track performance; awarded *Star Performer* for contributions.
- Built a Flutter feature for Participant Relations to update competition timings dynamically for real-time attendance tracking.

FAST NU Smart Video Surveillance Laboratory

<i>Software Engineering Intern</i>	Karachi, PK June 2024 – December 2024
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- Engineered a Django REST backend for an AI travel guide app, integrating Cohere's API to generate structured itinerary plans from user preferences and Canadian point-of-interest data.
- Deployed the application MVP on AWS with Nginx, configured logging and monitoring, and integrated backend APIs with a React Native frontend for cross-platform delivery.
- Conducted computer vision experiments for the MediaEval benchmark using OpenAI's CLIP (deep learning image-text model); fine-tuned hyperparameters and evaluated results with PhD researchers.

OPEN Silicon Valley

<i>Website Operations Coordinator (Seasonal / Ad-hoc)</i>	Remote, US January 2024 – March 2026
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- Managed the full web presence across four domains: opensv.org, opensvforum.org, opensvconnect.org, and pitchkaro.org, ensuring uptime, brand consistency, and timely updates.
- Designed and deployed event landing pages for Annual Forum 2024, Annual Forum 2025, Synergy 2025, Biotech & Healthcare Forum 2026, and the Pitch Karo startup pitch competition.
- Built a badge printing and registration verification app deployed on-site, enabling event volunteers to manage attendee check-ins in real time.

Sastaticket.pk

<i>Software Engineering Intern</i>	Karachi, PK January 2024 – January 2024
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- Received mentorship from an engineering manager on Django best practices, RESTful API design, and Pythonic coding patterns in a production environment.
- Observed on-site engineering operations and received a guided walkthrough of the production codebase, gaining exposure to how large-scale Django applications are structured and maintained.

PROJECTS

Boolean Retrieval Engine: Trump Speeches	[Source Code]
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Built an NLP-based boolean and proximity retrieval engine over a 56-document corpus using Python and NLTK (Porter stemming, stopword removal, tokenization); constructed inverted and positional indexes, exposed search via a FastAPI REST API with Swagger docs and a React + Vite frontend; Dockerized and deployed on Vercel.

Turing Machine Based Anagram Checker	[Source Code]
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Implemented a Turing Machine anagram checker in Python and PyQt5 with both GUI and CLI interfaces; visualized step-by-step state transitions and tape manipulation to demonstrate core computational theory and algorithm design principles.