Owais Ali Khan

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EDUCATION

FAST NUCES, KARACHI
- Bachelors of Science in Computer Science, CGPA: 3.89

ACHIEVEMENTS

- Gold Medallist ICPC Asia Topi Regional '24-25 (National 4th rank)
- Silver Medallist ICPC Asia Topi Regional '23-24 (National 8th rank)
- Ranked 531/4200, IEEE Xtreme Programming Competition 17.0 (Global 531st rank)
- Rector's List (Spring '22)
- Dean's List (Fall '21, Fall '22, Spring '23, Fall '23, Spring '24, Fall '24, Spring '25)

SKILLS

LANGUAGES
Python • C/C++ • Java • JavaScript/TypeScript • Dart

LIBRARIES/FRAMEWORKS
Django • Flutter • NodeJS • ExpressJS • FastAPI • Bootstrap5 • Material UI • CMake • CUDA

PRODUCTIVITY
Git • Linux (Debian-based) • Zsh/Bash (Shell Scripting) • Vim • Markdown • LaTeX • Figma

DATABASES
MySQL • PostgreSQL

DEVOPS
Docker • Kubernetes • Jenkins (CI/CD)

VOLUNTEERING & COMMUNITIES

- Student Lab Assistant, Data Structures and Algorithms (Fall 2024, Fall 2025)
- ACM Devday'25 Mentor Technology (January '25 - April '25)
- Procom'24 Co-head CS Competitions (January '24 - March '24)
- IEEE Membership (Dec '23 - Dec '24)

EXPERIENCE

SECURITI AI | Associate Software Engineer
June '25 - Present | Hybrid
- Writing code using *rule-based* and *machine learning* principles to extract sensitive information from raw and *unstructured* data.
- Responsible for maintaining and extending the existing *PII* detection workflows, as part of the greater **Content Classification** team.

SECURITI AI | Software Engineer Intern
June '24 - Aug '24 | Hybrid
- Engineered a high-performance infrastructure for matching large-scale *regular expressions* using state-of-the-art tools i.e. **Intel Hyperscan** and **Google RE2J**, resulting in performance speedups of 2-3 factors of magnitude.

RETROCAUSAL AI | Applied Research Intern
Mar '24 - June '24 | Remote
- Developed automated workflows and *RESTful* API endpoints for reporting and exporting internal data models using the **Django REST Framework**.
- Designed and implemented cloud-based **(Amazon S3)** solutions for *scalable* storage and retrieval of standarized data reports.

LDP LOGISTICS | IT Support Specialist
June '23 - Sep '23 | Onsite
- Built and deployed a full-stack *web application* (**Django** and **Bootstrap4**) for managing the status and location of all electronic *inventory*.
- Acted as the primary IT *solutions provider* and technical officer, supporting all in-house teams with *infrastructure*, *troubleshooting* and *system modifications*.

PROJECTS

POLARIS | High-performance Image Processing
Fall 2023 | Parallel and Distributed Computing (Project)
- Designed and developed **Polaris**, a *parallelized* image enhancement program. Polaris performs standard image enhancement techniques (i.e. **Gaussian filtering** and **Histogram Equalization**) in order to *sharpen* image quality and increase *contrast* in dark images.

LDP ASSET MANAGER | Fullstack Web Application
Summer 2023 | Full Stack Development
- Developed an *inventory management system* using **Django**, **MUI**, **JQuery**, **MySQL**, **Apache HTTP Server**, **Bootstrap4**
- The main function of this project is to act as a *web portal* that keeps track of all the inventory (assets, accessories, licenses, etc) held at all *LDP* offices.

LLM TEXT DETECTOR | Natural Language Processing
Fall 2024, Spring 2025 | Final Year Project
- Title: **A Hybrid Approach to LLM-generated Text Detection**.
- Utilized a combination of *cross-perplexity* scores and a fine-tuned *T5* transformer model to perform multiclass classification on the originality of input text, i.e. Human or AI-generated (**GPT-4**, **Gemini Flash**, **Claude Haiku**).
- Achieved a 94% **F1-score** on our curated dataset (7500 generations per class).