Owais Ali Khan

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EDUCATION

FAST NUCES, KARACHI
BS(CS), 3.89 CGPA
July 2025

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)

SKILLS

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

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

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

DATABASES
MySQL • PostGRESql

DEVOPS / CLOUD
Docker • Jenkins (CI/CD)

EXPERIENCE

SECURITI AI | SOFTWARE ENGINEER INTERN
June '24 - Aug '24 | Hybrid

- Worked in the *Content Classification* (CC) *team.*
- Built an infrastructure for matching large scale *regular expressions* using state-of-the-art open source tools (i.e **Intel Hyperscan**), and wrote integrations with the existing *entity extraction* workflow.

RETROCAUSAL AI | APPLIED RESEARCH INTERN
Mar '24 - June '24 | Remote

- Fulfilled my duties as part of the *Applied Research* team.
- Created workflows and automations for *reporting* and *exporting* internal data models in standard formats.

LDP LOGISTICS | IT SUPPORT SPECIALIST
June '23 - Sep '23 | Onsite

- Backend *developer* and sole *maintainer* for the internal management website used in local and overseas offices.
- In addition, the main IT *solutions provider* and technical officer for all in-house teams.

PROJECTS

POLARIS | HIGH-PERFORMANCE IMAGE PROCESSING APPLICATION
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.
- Polaris is written in **C++17** and uses the open-source *multiprogramming* framework **OpenMP** to utilize all available *CPU cores* for image processing.

LDP ASSET MANAGER | INVENTORY MANAGEMENT SYSTEM
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.
- Deployed the finished web application on **Dreamhost**

TAGGER | DATA EXTRACTION AND ANALYSIS
Spring 2024 | Information Retrieval (Project)

- Created a tool that uses *Azure* services (**SpeechService** and **TextAnalytics**) to *transcribe* video and extract *NamedEntities* (i.e. landmarks).
- Also created a *search* mechanism for the recognized entities from an existing *knowledgebase* (i.e. Tripadvisor).

VOLUNTEERING & COMMUNITIES

- IEEE Membership (Dec '23 - Dec '24)
- Procom '23 Co-head CS Competitions (Jan '23 - Mar '23)
- Procom '22 Co-head Math Olympiad (Jan '22 - Mar '22)