Khalilullah

Software Engineer
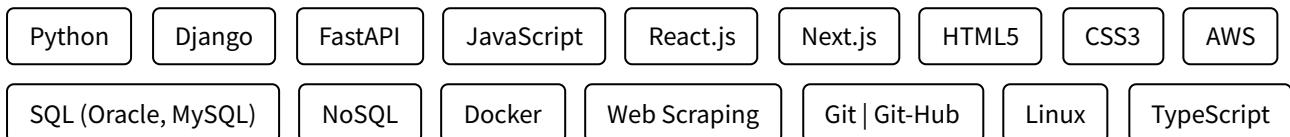
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in linkedin.com/in/khalilullah-dev   ○ github.com/Khalilullah-Nohri   🔗 khalilullah-nohri-portfolio.vercel.app

SUMMARY

Motivated Software Engineer with hands-on experience in Python, JavaScript, and web development. Skilled in building responsive applications, working with databases, and automating workflows to improve efficiency. Strong understanding of software engineering principles, eager to learn and contribute to modern, scalable solutions in collaborative environments.

SKILLS

| Python | Django | FastAPI | JavaScript | React.js | Next.js | HTML5 | CSS3 | AWS |

| SQL (Oracle, MySQL) | NoSQL | Docker | Web Scraping | Git | Git-Hub | Linux | TypeScript |

PROFESSIONAL EXPERIENCE

Sui Southern Gas Company Head Office, *Trainee Engineer* 🔗   01/2024 – 12/2025 | Karachi, Pakistan
- **Legacy System Replaced with Modern Desktop App** Designed and developed a Python (PyQt)-based desktop application integrated with Oracle DB, eliminating manual tasks on legacy AIX OS. Improved process reliability and reduced operational delays by **~50%**.
- **Boosted Web Experience with UI Revamp** Redesigned the official SSGC website homepage; created mockups and implemented a responsive UI using **HTML**, **TailwindCSS**, **Bootstrap**, and **modern ES6 JavaScript**, enhancing performance and user experience on mobile and desktop.

National Bank of Pakistan Head Office, *IT Officer* 🔗   02/2023 – 12/2023 | Karachi, Pakistan
Contributed to the **digital transformation** of banking operations within the Digitalization of Products and Processes Division. Primary responsibilities included running **Oracle** queries and generating Management Information System (MIS) reports. Additionally, I play a crucial role in web development using **React.js** and **Python** to enhance the bank's digital services and user experience.

SkipQ, *DevOps Trainee* 🔗   07/2022 – 11/2022 | Remote
SkipQ (is an EdTech company that sources, trains, and places early-stage developers. They work with top-tier tech companies and their instructors are supported by a team of 4 coaches who are all Senior Engineers in the world's best software companies - Google, Amazon (AWS), and Salesforce.)
As a Trainee, I worked on;
- Used **AWS-CDK**, to build a web crawler app
- Automate that app using the **CI/CD** toolkit
- Develop a **REST-API** for an app using **API-GateWay**
- Use different services within Applications, like **CloudWatch, Lambda, S3, DynamoDB, ApiGateway, Cloud9, IAM, code deploy, and code pipeline**
- Worked on **dockers** and **containers** also

Interns Pk, *Front-end Internee* 🔗   02/2022 – 03/2022 | Remote
A remote-based internship by the Spark Program (Interns.pk 🔗) focused on full-stack readiness and modern front-end development. Completed a 1.5-month hands-on internship working with **HTML5, CSS3, JavaScript (ES6+), jQuery, and React.js**, including practical use of **React Router v5, Google Sheets API, React Bootstrap, and Fetch API** for real-world project implementation.

EDUCATION

B.E. Computer Systems Engineering, *MUET* 🔗   10/2017 – 12/2021 | Jamshoro, Pakistan
Core Subjects were,
- OOP/Programming - Data Structure - Networking - Web Designing - Data Base Management - AI -Data Science - Other CS core Courses
- FYP: Smart Surveillance System– Automated door lock system using **Flask**, **Twilio**, and **Raspberry Pi** with facial detection to trigger messaging and gate control

PROJECTS

AI-powered UpWork Agency Management System 🔗   07/2025 – 08/2025

Developed a full-stack system combining **React.js (frontend)** and **Flask (backend)** with **SQLAlchemy ORM** and **SQLyog** for database management. Integrated **Gemini API** for automated proposal generation and **Selenium** for AI-driven job scraping automation. Implemented **JWT-based authentication** for secure, role-based access and **RESTful APIs** for smooth communication between client and server, tested via **Postman**. Incorporated an intelligent **resume–job matcher** using **Sentence Transformers** and **cosine similarity** to compute fit scores. Designed with modular architecture ensuring scalability and maintainability.

Practice Implementation: Advanced Salary Application Form 🔗   09/2023 – 11/2023

Developed a responsive NBP Advanced Salary Application Form using **React.js** and **Tailwind CSS**. Implemented secure backend operations with **Django**, ensuring robust data handling and storage in **SQLite3**. Integrated real-time validation for enhanced user experience and utilized **Axios** for seamless communication between the React front-end and Django API. Managed cross-origin requests efficiently using **Django-cors-headers**.

Front-End Internship Projects   02/2022 – 03/2022

Developed multiple React-based applications including:
- **BMR Calculator App** utilizing React Class Components, state management, and conditional rendering to build a metabolic rate tool with form validation and dynamic calorie targeting. Live Link 🔗
- **Quiz App** using React Class Components, state management, and modular components with props for question flow, scoring logic, and dataset handling. Live Link 🔗
- **Dashboard** integrating **Google Sheets API**, React Bootstrap, Dropdown, and 3D chart components to create a responsive analytics panel with live data fetching and visualization. Live Link 🔗

Smart Surveillance System 🔗   01/2021 – 08/2021

We Developed a **Flask**-based IoT surveillance system with Raspberry Pi, utilizing **OpenCV** for real-time face detection and recognition, achieving 70-80% accuracy with the Haar-Cascade algorithm and remote monitoring.

CERTIFICATES

IT Mustakbil Training Program — Systems Limited (6-Months, Hands-On Diploma)

Completed a comprehensive 6-month professional training program focused on full-stack development and DevOps practices. Gained hands-on experience across **software engineering**, **programming (C++, Python, JavaScript)**, **databases(SQL Server,SQLAlchemy)**, **front-end frameworks(Vue.js, React.js)**,and **DevOps tools**.
Key Areas Covered:
- **Software Engineering & QA:** SDLC, Agile (Scrum), UML Diagrams, SRS/SDS documentation, Functional & Non-Functional Testing, Manual & Automation Testing (JIRA, Selenium, TestRail).
- **Programming & OOP:** C++ fundamentals, data structures, algorithms (searching, sorting, recursion), OOP.
- **Databases:** ER modeling, normalization, joins, views, subqueries, SQL commands (DML, DDL, DCL), database design in **MS SQL Server**.
- **Web Development:** HTML5, CSS3, JavaScript (ES6+), Vue.js, Node.js (Express.js), REST APIs, Postman.
- **Advanced Topics:** Regular Expressions, MVC architecture, RESTful API design, Microservices concepts
- **Python Full-Stack Project:** Built an **AI-powered Job Scraping & Task Management System** using Flask, React.js, SQLAlchemy, JWT, Selenium, Gemini API, and Sentence Transformers.
- **DevOps Specialization:** Gained hands-on experience with **Linux** administration, **Git/GitHub** version control, and **Docker** for container management. Practiced infrastructure provisioning using **Terraform**, **CI/CD** pipeline setup with **Jenkins** and **Azure DevOps**, and foundational **Kubernetes** concepts.

Generative AI Specialization (6 Weeks) 🔗

Completed an intensive 6-week course covering **Generative AI**, **RAG-based applications**, **fine-tuning models**, **API integrations**, and **AI-powered development** using tools like **Gradio**, **Streamlit**, **Hugging Face**, and **Groq API**. Built and deployed multiple projects leveraging various **LLMs**.

Python for Executives Training by SBP at NIBAF Karachi 🔗

Completed a **1-week Python training** covering **core syntax**, **control structures**, **data structures** (lists, dictionaries, tuples), and **NumPy** for financial calculations. Practiced **Pandas** for data analysis, **Matplotlib/Plotly** for visualization, and **automation** with web scraping, PDF handling, and email workflows.

Programming Essentials in Python 🔗

Completed 4 months of the **PCAP: Programming Essentials in Python** course, demonstrating proficiency in fundamental programming tasks including **Numpy, and Pandas,** and understanding of Python programming techniques, practices, and terminology.

Web Development Internee 🔗

Completed the **Winter'19 Internship** organized by **TechKorner**, in collaboration with **Messiah App**, **Pakistan Engineers Forum**, and **FourCodex**. Gained hands-on experience in **HTML5**, **CSS3**, **JS**, **Yii**, **PHP**, and **Flutter**.