Irfan Khan

irfankhancpg@gmail.com | linkedin.com/in/irfan-mahir-khan | github.com/IrfanKhan78

SUMMARY

Recent Computer Science graduate with a solid foundation in back-end development and programming, eager to contribute to innovative software solutions. Looking to apply my technical skills and knowledge in an entry-level Software Engineering role, where I can leverage my expertise to build efficient, automated systems while continuing to grow and learn in a dynamic and collaborative environment.

EDUCATION

The Pennsylvania State University — August 2020 – May 2024
Bachelor of Science in Computer Science — *University Park, PA*

EXPERIENCE

Software Engineering Intern — June 2023 – August 2023
Lockheed Martin - Enterprise Operations Unit — *Great Neck, NY*
- Developed a middleware solution in Python to streamline data flow from TIBCO to Kinaxis Rapid Response for supply chain data visualization, reducing data processing time by 30% and improving overall system efficiency.
- Collaborated with the Software Architecture team to design and implement unit testing for the CI/CD pipeline using GitLab, reducing error detection and resolution time by 40%.
- Assisted in optimizing data pipelines by identifying and resolving performance bottlenecks, resulting in faster data processing and improved system responsiveness.

Learning Assistant of Object-Oriented Programming — January 2022 – May 2023
Penn State College of Engineering — *University Park, PA*
- Taught basic and intermediate Object-Oriented Programming (OOP) concepts in Java to college students during office hours and recitations.
- Guided students through programming assignments, offering support and clarifying key concepts to improve their coding skills.

TECHNICAL SKILLS

Languages: Python, SQL, Java, C, JavaScript
Frameworks: Django, NodeJS, ExpressJS, EJS, HTML, CSS
Databases: PostgreSQL, MySQL, SQLite
Developer Tools: GitHub, GitLab, TIBCO, JIRA, Jupyter Notebook, VS Code, Linux
Libraries: Pandas, NumPy, Matplotlib

PROJECTS

StockX | *Python, Django, HTML, CSS, API* — August 2024 – October 2024
- Developed a Django-based web application that empowered users to analyze stock data, providing real-time updates and comprehensive market insights through an external API.
- Engineered a responsive web application using Django as the backend framework; implemented real-time stock price tracking alongside detailed market insights through seamless integration with third-party APIs and modern frontend technologies.

Weather App | *NodeJS, ExpressJS, EJS, Bootstrap, API* — June 2022 – July 2022
- Developed a responsive weather application using HTML, CSS, and JavaScript, integrating an external API to fetch real-time weather data and rendering it dynamically with EJS templates.
- Built a robust back end using Node.js and Express.js, enabling seamless data handling and interaction between the server and user interface.

Memory Management System | *C, Linux* — February 2022 – April 2022
- Designed and implemented a memory management system in C on Linux OS, utilizing a caching mechanism to efficiently store and retrieve recently accessed data, improving system performance and resource utilization.
- Developed the client-side network functionality, enabling seamless access to memory data over any network.