Haseeb Ramzan

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Summary — Computer Science graduate with 2+ years of experience in full-stack development and cloud infrastructure automation. Proven track record of building scalable web applications using modern technologies including Python, Java, and RESTful APIs. Currently pursuing Master's in Computer & Systems Engineering while seeking opportunities to contribute to innovative cloud automation solutions and AI-driven development practices.

Education

Technische Universität Ilmenau, Germany   April 2025 – Present
M.Sc. Research in Computer & Systems Engineering

– **Coursework:** Algorithms, Cloud Computing & System Security

FAST National University of Computer and Emerging Sciences   Aug 2019 – Jun 2023
B.S. in Computer Science

– CGPA: 3.56/4.0
– **Coursework:** Object Oriented Programming, Data Structures, Natural Language Processing, Artificial Intelligence, Mining Massive Datasets, MLOPs, Data Mining, Digital Image Processing, Parallel and Distributed Computing, Web Programming and Software Design & Analysis

Certifications

– AWS Cloud Technical Essentials – Coursera, *Issued Mar 2025*

Experience

Cytomate   Sep 2023 – Dec 2024
Full Stack Developer (Remote)

– Developed and maintained **production-grade web applications** using TypeScript, React.js, and Node.js, serving 1000+ active users across banking, healthcare, and government sectors
– Built modular UI components with **React** and **Ant Design**, streamlining interface scalability and improving delivery speed of frontend features by 40%
– Designed and secured **REST APIs** with role-based access control for mission-critical systems, implementing comprehensive authentication and authorization mechanisms
– Successfully **migrated** legacy **.NET desktop application** to **Electron** framework using TypeScript, enabling seamless cross-platform deployment across Windows, macOS, and Linux environments
– Automated product integration workflows by connecting marketplace APIs and configuring webhooks, eliminating manual processes and increasing deployment accuracy by 35%
– Implemented **Redis caching** strategies and optimized database queries, resulting in 60% improvement in API response times and enhanced system performance
– Contributed to secure **PDF reporting** module for system insights using **Puppeteer**, supporting auditing and regulatory compliance requirements
– Established centralized logging and monitoring infrastructure using Elasticsearch, playing a key role in achieving **Common Criteria (CC) certification** through enhanced traceability
– Collaborated with cross-functional teams using **Scrum methodology**, participating in sprint planning and daily standups to deliver features aligned with business objectives

Alachisoft   June 2023 – Aug 2023
Software Engineer

– Engineered high-performance enterprise software solutions using **C# and .NET Framework**, specifically optimized for distributed caching architectures
– Developed and implemented **advanced serialization and deserialization protocols**, enhancing data exchange speed by 40% and improving reliability in distributed systems
– Built scalable and maintainable backend modules leveraging **NCache** distributed caching technology, gaining expertise in memory management optimization and caching strategies
– Designed **RESTful APIs** with comprehensive error handling, input validation, and logging mechanisms for production-ready enterprise applications
– Collaborated with senior developers on **code reviews and architectural decisions**, contributing to clean code practices and system reliability improvements

Technical Projects

VStorm - Distributed Task Scheduler   **Apache Storm, Python, Machine Learning, Vue.js**
Bachelor Thesis Project

- Developed an intelligent scheduler for streaming big data processing on Apache Storm, optimizing resource allocation across distributed computing clusters
- Implemented machine learning algorithms to classify computational tasks as GPU-intensive, CPU-bound, or I/O-dependent in real-time, improving task distribution efficiency by 30%
- Created automated shell scripts for cluster deployment and configuration management, streamlining infrastructure setup and reducing manual intervention
- Built a comprehensive web-based dashboard using Vue.js for real-time cluster monitoring, resource utilization tracking, and performance analytics
- Achieved significant performance improvements over existing research solutions, with findings documented in ongoing academic publication
- Utilized Linux system administration skills for cluster management, including process monitoring, resource allocation, and automated scaling

EduQuiz - AI-Powered Quiz Management System   **Java, Spring Boot, MySQL, TensorFlow**
Academic Management Platform

- Developed a comprehensive quiz management system with full Google Classroom functionality, including assignment distribution, student enrollment, and grade management
- Implemented AI-powered proctoring system using computer vision and machine learning models to detect suspicious behavior during online assessments
- Created automated cheating detection algorithms that analyze student behavior patterns, mouse movements, and focus changes, generating detailed reports for instructors
- Built RESTful APIs using Spring Boot framework for seamless integration between frontend and backend services, supporting concurrent user sessions
- Designed responsive user interfaces for both students and instructors, featuring real-time quiz monitoring and instant feedback mechanisms
- Integrated secure authentication system with role-based access control, ensuring data privacy and system integrity for educational institutions

PrivateGPT - AI Document Assistant   **Next.js, Python, Node.js, PostgreSQL**
Enterprise AI Solution

- Developed an AI-powered internal GPT chat tool using OpenAI's API and vector embeddings for intelligent, context-aware document querying within enterprise environments
- Integrated SharePoint API for real-time data synchronization and automated content indexing, enabling seamless document management workflows
- Implemented comprehensive user-group permissions and persistent chat history features, ensuring secure and scalable interactions for large organizations
- Built containerized microservices architecture using Docker, facilitating easy deployment and scaling across different infrastructure environments
- Created automated data pipeline for document processing and embedding generation, reducing manual content preparation time by 70%

Technical Skills

Programming Languages:	Python, Java, C#, JavaScript, TypeScript, C++, SQL, Shell Scripting
Web Technologies:	React.js, Next.js, Node.js, Express.js, RESTful APIs, GraphQL, WebSocket
Frameworks & Tools:	Spring Boot, .NET Framework, Electron, Docker, Git, Kubernetes
Databases:	MySQL, PostgreSQL, MongoDB, Redis, Elasticsearch
Cloud Platforms:	AWS (Lambda, S3, DynamoDB), Azure DevOps, Google Cloud Platform
AI/ML:	TensorFlow, OpenAI API, Machine Learning, Vector Embeddings, Prompt Engineering
Operating Systems:	Linux, Windows, macOS (Cross-platform development experience)
Development Practices:	Agile/Scrum, CI/CD Pipelines, Test-Driven Development, Code Reviews