

## Zulfiqer Sekender

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### SUMMARY:

- **Over 15 years of experience** in requirements analysis, **software design, development**, debugging, and **support** across Linux/UNIX/Windows/Android platforms.
- Extensive experience with **Python (7+ years)**, **Golang (5+ years)**, **JavaScript (4+ years)**, and **Java (4+ years)** design and development.
- Over 5 years of experience in **AI/ML**, including expertise in large language models (**LLMs**), retrieval-augmented generation (**RAG**), **embedding techniques**, vector databases, **data analysis**, and **data modeling**.
- Proven record of **leading technical teams**, with significant experience at Verizon Wireless and Innovate Dynamic.
- Expertise in designing, developing, and supporting scalable concurrent distributed systems, real-time applications, mobile applications, and embedded systems.
- Passionate about evaluating and researching new technologies.
- Quick learner with a proven ability to acquire new technologies, skills, and business knowledge.
- Skilled in working under pressure in fast-paced environments and effectively communicating with clients, development teams, and business teams.

### TECHNICAL SKILLS:

**Languages:** Python, Golang (Go), C/C++, Java, JavaScript (React, Angular, Node.JS).

**Operating Systems:** Linux, UNIX, Windows, Android.

**AI:** OpenAI API, TensorFlow, PyTorch, HuggingFace, Scikit-learn, LlamaIndex, Ollama, Llama3, mistral, DuckDuckGo

**Databases:** Oracle, MySQL, PostgreSQL, NoSQL Databases (Redis, MongoDB), Vector Databases

**Technologies:** Service Oriented Architecture, Object Oriented Analysis & Design, Embedded Systems, **Cloud Computing (AWS/GCP/Azure)**, **Microservices**, Serverless Computing, Computer Security, **Data Analysis**, **Data Modeling**.

**Tools & Others:** Git, Jenkins, CI/CD, Spring Boot, REST, **Agile methodologies**, RabbitMQ, **Kafka**, **Docker**, **Kubernetes**, **Splunk**, **Grafana**, **Elasticsearch**, Kibana, gRPC, GraphQL.

### WORK EXPERIENCE

**INNOVATE DYNAMIC** – Remote

**JUL 2021 - PRESENT**

**Founding Engineer** – Development

- Worked in a **fast-paced startup environment**, contributing across the full software development lifecycle.
- **Collaborated directly with founders** and cross-functional teams to rapidly prototype and iterate on product features.
- Led technical decision-making to balance scalability, performance, and time-to-market in a resource-constrained environment.
- **Designed, developed, and maintained** a health care system, a scalable web-based applications aiding in the temporary treatment of minor ailments for uninsured patients.
- Provided technical guidance to junior team members while contributing as a hands-on developer, consistently delivering high-quality code and solutions.
- Developed **Vertical-Focused AI Chatbot** for customer support system.

- Integrated health care system with MDToolbox (e-prescribing software) and Google Microservice APIs for pharmacy location, reducing the need for manual interventions by 90%.
- Performed **data analysis** and **modeling** in Python leveraging **statistical methods** and **machine learning** algorithms to derive actionable insights and optimize decision-making processes.
- Mentored a team of 6 engineers, overseeing code reviews and implementing best practices that resulted in **20% fewer production bugs** and **98% on-time delivery**.
- Implemented automated test execution and result verification processes, **reducing operating costs by 20% annually** and achieving approximately **\$100,000 in savings**.
- Investigated, debugged, and resolved software defects at various testing stages and customer levels.
- Ensured all developed products adhered to HIPAA compliance standards, safeguarding sensitive information and enhancing data security.
- Enhanced documentation quality and reduced code defects through rigorous technical reviews.
- **Technologies Used: Python, Golang, React JS, PostgreSQL, gRPC, AWS, Linux, Micro Services, API, Kubernetes, Kafka, OpenAI API, TensorFlow, PyTorch, HuggingFace, Scikit-learn, LlamaIndex, Ollama, llama3, mistral, DuckDuckGo, Agile methodologies.**

**NOKIA – Murray Hill, NJ**

**JUL 2020 – JUL 2021**

**Consultant –** (Consulting Company: Orion Systems)

- Designed and developed an optical fiber modem simulation for **Nokia's automated CI/CD system**, reducing testing time by 40%.
- Ensured efficient and secure deployment of **Large Language Models** for enhanced infrastructure management and data privacy.
- Performed **data analysis** and **modeling** in Python leveraging **statistical methods** and **machine learning** algorithms to derive actionable insights enhancing decision-making efficiency by 20%.
- Participated in design and code reviews, resolving technical issues, and generating automatic reports for system statistics.
- Improved product quality through diligent debugging and defect resolution.
- **Technologies Used: Python, C/C++, Pandas, NumPy, TensorFlow, Linux, Grafana, Elasticsearch, Agile methodologies.**

**TIDAMED (The Interim Doctor App) – Neptune, NJ**

**NOV 2019 - JUL 2020**

**Founding Engineer**

- **Designed, developed, and maintained** TIDAMED (The Interim Doctor App) system increasing patient engagement by 35% within the first six months. (TIDamed is a smart device app that proves useful and convenient to patients and primary care physicians in the temporary treatment of MINOR ailments for the uninsured patients).
- Led the design, development, testing, and maintenance of the TIDAMED system.
- Supervised a team of 5 members, ensuring HIPAA compliance and hands-on coding.
- Enhanced documentation and reduced code defects through technical reviews.
- Automated test execution and result verification processes.
- Investigated, debugged, and resolved software defects at various testing stages and customer levels.
- **Technologies Used: Python, Golang, React JS, PostgreSQL, gRPC, AWS, Linux, Micro Services, API, HIPAA Policy, Agile methodologies.**

**VERIZON WIRELESS – Warren, NJ**

**JUL 2013 – NOV 2019**

**MTS IV Cslt-Sys Engrg–** IT Wireless Mobile Apps Department

- Senior Software Engineer for Verizon Remote Mobile Device Diagnostic systems, developing applications to remotely debug and fix mobile device issues which reduced operating costs by 40% annually and achieved approximately \$200,000 in savings yearly.
- Enhanced the Remote Mobile Device Diagnostic Server using OMADM Protocol for **4G and 5G devices**, optimizing server performance by 40% and reducing system downtime by 25%.

- Led research and implementation efforts in remote mobile device screen transfer and touch injection.
- Developed and supported **LWM2M/IoT** server for device management over sensor or cellular networks.
- Migrated applications to AWS, utilizing various AWS services cutting infrastructure costs by 15% and improving system uptime by 20%.
- Conducted performance analysis and improvements through load testing and POCs.
- Automated report generation for system health and performance metrics.
- Performed **data analysis** and **modeling** in Python leveraging **statistical methods** and **machine learning** algorithms to derive actionable insights and optimize decision-making processes.
- **Technologies Used: Python, Golang, Spring Boot, React, AWS, Linux, Shell Scripts (Bash), Java, Kubernetes, IBM MQ, Git, Jenkins, Splunk, Redis, Kafka, Oracle, Agile methodologies.**

#### **CLS BANK – New York, NY**

**NOV 2012 – JUL 2013**

##### **Consultant** – (Consulting Company: Persistent Systems)

- Designed, implemented, and tested CLS Bank's FX transaction system, ensuring low latency and high scalability which reduced latency by 30%.
- Coordinated and managed an off-shore development team, ensuring on-time and quality deliverables.
- **Technologies Used: C/C++ 11, Erlang/OTP, Windows, HTTPS, JSON, Low latency, TCP/IP, Agile methodologies.**

#### **VERIZON WIRELESS – Warren, NJ**

**NOV 2010 – NOV 2012**

##### **Senior Programmer Analyst** – IT Wireless Mobile Apps Department

- Developed Verizon Push project, providing secure and reliable delivery of messages to mobile devices.
- Integrated Verizon push platform with APNS and C2DM increasing reliability by 50%.
- Developed MAS (Mobile Accessory Store), allowing users to purchase mobile accessories via mobile devices or websites.
- **Technologies Used: C/C++ 11, Erlang/OTP, React, AWS, Linux, Shell Scripts (Bash), Java, Kubernetes, IBM MQ, Agile methodologies.**

#### **EDUCATION:**

North Dakota State University (NDSU) - Fargo, North Dakota

**M.S. Computer Science**

Bangladesh University of Engineering and Technology (BUET) - Dhaka, Bangladesh

**B.S. Computer Science and Engineering**

#### **US PATENTS:**

- **US Patent** awarded (**Patent Number 9,197,575**) – “Handling of Snapshot Messages as a Result of Delivery Failure In a Two-Way Push Connection”
- **US Patent** awarded (**Patent Number 9,819,785**) – “Multimedia Messaging Service Communication using a Two Way Push Connection”
- **US Patent** awarded (**Patent Number 9,832,314**) – “Customer Representative Remote Access for Troubleshooting Smart Phones”

**STATUS: U.S. Citizen.**