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 (5+ years) , Golang (4+ years), JavaScript (4+ years), and Java (4+ years)** design and development.
* 3+ years of experience with Generative AI, including Prompt Engineering and working with Large Language Models.
* 3+ years of experience with **data analysis** and **data modeling** (using **Python**).
* 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.

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

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

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

## WORK EXPERIENCE

**INNOVATE DYNAMIC –** Remote **JUL 2021 - PRESENT**

 ***Technical Lead Engineer* –** Development

* **Designed, developed, and maintained** the TIDAMED system, a smart device app aiding in the temporary treatment of minor ailments for uninsured patients.
* Led the design, development, testing, and maintenance of the TIDAMED system. Provided technical guidance to a team of 6 members while contributing as a hands-on developer, consistently delivering high-quality code and solutions.
* Ensured all developed products adhered to HIPAA compliance standards, safeguarding sensitive information and enhancing data security.
* Integrated TIDAMED with MDToolbox (e-prescribing software) and Google Microservice APIs for pharmacy location, reducing the need for manual interventions by 90%.
* **Spearheaded the seamless migration** of a major telecom provider's critical infrastructure components **from on-premise hardware to AWS Outpost**, enhancing scalability, security, and operational efficiency.
* Conducted **Prompt Engineering** in **Generative AI** by designing, refining, and optimizing input prompts for improved AI response accuracy increasing response accuracy by 25% and maintaining strict data privacy.
* 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.
* Enhanced documentation quality and reduced code defects through rigorous technical reviews.
* **Technologies Used:** **Python,** Golang, **Flask,** **React JS,** **PostgreSQL**, **gRPC,** **AWS,** Linux, **Micro Services,** API, **Kubernetes, Kafka,** HIPAA Policy,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,** **Flask,** **C/C++**, **Linux, Grafana, Elasticsearch, Generative AI,** Agile methodologies.

 **TIDAMED (The Interim Doctor App) –** Neptune, NJ **NOV 2019 - JUL 2020**

 ***Consultant* –** Development

* **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,** **Flask,** **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.

**DOW JONES –** South Brunswick, NJ **­­­­­­­­­­­­­ ­­­­­­­­­­­­­ MAY 2008 – NOV 2010**

***Application Analyst* –** News Wires Group

* Designed, developed, and maintained Dow Jones News Wires auto publishing system for algorithmic traders.
* Completed multiple high-quality projects, including REAP3R and Automation of Economic Indicators.
* **Technologies Used:** **Java**, **C++,** Windows, shell script, Perl, Oracle, TCP/IP, **Low latency, Market Data,** 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.**