**A white letter on a black background

Description automatically generatedKACEM BOUFELLIGA (Location: Bozeman, MT)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Summary of Qualifications** |  |  | **Technical Skills** |
| Results-driven and visionary professional with extensive experience in designing and implementing cutting-edge solutions to drive excellence across software development and architecture.Adept at leveraging innovative technologies and industry best practices to increase efficiency and enhance system performance. Expertise in building automated solutions incorporating multiple technologies with specialty and interest in designing & building natural language interpreters using classical and artificial intelligence approaches with context free grammars and neural networks including large language models.   * Experience with VGGNet, AlexNet, GoogleNet, and ResNet as well as Transformer-based Architectures. * Activation functions and variants including Sigmoid, ELU (Exponential Linear Unit) and ReLU (Rectified Linear Unit). * OpenAI Gym Deep Q Learning (Experience Replay, Target Network, Neural Architecture) and Double Deep Q Leaning (Action Selection, Action Evaluation) |  |  | * **Programming** C#, ASP.NET, Angular, TypeScript, JavaScript, HTML, CSS, Java, Clojure, Nodejs, Python, Shell scripts, MS SQL, Oracle, PostgreSql, MySQL, MongoDB, Snowflake, MuleSoft, Databricks/Spark, Hibernate, Ibatis, JOOQ, SwiftUI, ReactJS, Vaadin, MQTT, AMQP, XMPP, KAFKA, PULSAR, RABBITMQ, Spring Boot * **Software Tools** Docker, Kubernetes, TravisCI, Gitlab Pipeline, Terraform, Helms, Git, Gitlab, Perforce, Svn, Maven * **Hardware** Raspberry Pi, NVIDIA Jetson, Odroid, UDOO x86, Arduino, IBM 308x-309x series mainframes running MVS (TSO Shell), DOS/VSE , IBM x.86 PCs/Servers running Windows and Linux * **Languages** Native in English and French |

# 

* Ensured legal compliance and met privacy requirements of all T-Mobile customers by constructing privacy platform with automated solutions to onboard both T-Mobile's internal/external applications.
* **Engineered scalable, cloud-connected sensor platforms enabling real-time data collection and automated customer adjustments, utilizing machine learning, reinforcement learning, GAN/LSTM networks, and advanced computer vision algorithms.**
* **Developed and delivered AI-powered solutions for automated identification, analysis, extraction, and verification of customer information, including KYC automation for banking and telecommunications industries.**
* **Pioneered innovative software tooling by architecting high-accuracy platforms-such as a check processing system achieving 99.3% accuracy in handwritten data extraction-demonstrating technical excellence and leadership in AI-driven automation.**

# **Professional Experience**

# 

**Exadel (formerly Coppei)** 04.2021 – Present

**Positions:**  Sr Consultant: Solutions Architect & Principal Software Engineer

**Client:** US Air Force

**Responsibilities included:**

**Architected and delivered an autonomous flight simulation MVP for the USAF by translating complex business requirements into robust technical specifications. Provided hands-on technical leadership throughout the development lifecycle, integrating advanced simulation technologies to meet mission objectives and ensure technical excellenc**e.

**Client:** Microsoft Global Data Center Division

**Responsibilities included:**

**Drove the design and architecture of a comprehensive supply chain visualization platform in close partnership with stakeholders. Engineered and integrated 2D/3D tracking systems, ensuring seamless interoperability and technical alignment across engineering and business domains.**

**Client:** T-Mobile

**Responsibilities included:**

* **Served as a principal architect for T-Mobile’s Privacy Platform, owning the end-to-end architecture, development, and delivery of critical system components. Collaborated with five cross-functional enterprise teams-including legal, security, product, marketing, and third-party vendors-to ensure scalable, compliant, and secure solutions**.
* **Interfaced regularly with executive leadership to translate evolving business needs into actionable technical strategies, ensuring regulatory compliance and alignment with corporate objectives**.
* **Oversaw the full software development lifecycle, from requirements gathering and architectural design to implementation, deployment, and post-launch optimization**.
* **Championed engineering best practices by facilitating and participating in multiple Scrum teams, organizing technical sessions, and mentoring engineers to foster innovation and deliver high-quality results**.
* **Engineered automated onboarding solutions for 1,000+ internal and external systems, delivering scalable, agent-based platforms for privacy request processing**.
* Directed the development of analytics and reporting platforms for compliance and auditing, emphasizing quality, documentation, and end-user enablement.

**Neuron Edge Technologies LLC** 12.2019 – 04.2021

**Position:** Enterprise Architect

**Responsibilities included:**

Designed and executed scalable sensor platform connected to cloud by facilitating near real-time data collection and empowering customers in implementing automated adjustments. Utilized machine learning, reinforcement learning, GAN/LSTM networks, unsupervised learning methods, and integrated computer vision algorithms with OpenCV for advanced and efficient solutions. Crafted product roadmaps and specifications, encompassing hardware requirements, software API definitions, software architecture, user manuals, documentation, and technology selection.

* Contributed to development, refinement, prioritization, and execution of product strategy and roadmap by engaging with cross-functional teams in engineering, products, marketing, sales, client services, and business development.
* Created innovative solutions tailored for financial, telecommunication, and gaming industries by guiding team of 25 engineers and artificial intelligence scientists.
* Served millions of customers by handling real-time processing of billions of dollars and implementing thousands of self-service devices.

**Speckeye Technology** 06.2012 – 10.2019

**Position:** Enterprise Architect

**Responsibilities included:**

Led architectural design and development of enterprise software solutions. Devised scalable, reliable, and high-performance software architecture to meet business goals. Collaborated with stakeholders to gather and understand business requirements and objectives.

* Achieved 99.3% accuracy in deciphering hand-written courtesy amounts by designing, formulating, and executing check processing platform with AI and Deep Learning engine.
* Managed annual volume surpassing €2B, incorporating Black-Scholes model by creating dynamic foreign exchange platform with currency options trading.
* Migrated Flash-based frontend of a currency trading platform to Angular, enabling real-time updates and order processing for forex and commodity trading. Including futures and options
* Secured 1M+ telecommunication contracts and generated financial reports daily by developing extremely scalable and automated contract validation platform.
* Streamlined KYC onboarding processes by developing Internet of Things (IoT) devices.

**Fedaso || Orone Group** 04.2010 – 05.2012

**Position:** Principal Architect - Software Development & Tooling

**Responsibilities included:**

Directed engineering R&D and onshore/offshore IT teams for successful project outcomes. Oversaw technology selection, product definitions, roadmaps, specifications, and development and delivery of multiple internal/external products for customers across diverse industries, including financial, insurance, retail, and government to meet specific needs of clients.

* Implemented Agile/Scrum methodology across various geographic locations by restructuring engineering team.
* Shifted from in-house applications to REST API Web Service Platforms by guiding strategic initiative.
* Developed EBP’s public tender platform upgrade using C#.NET backend and ASP.NET frontend, implementing MVC design patterns and separation of concerns
* Migrated business logic from stored procedures to dedicated business layer with caching for improved scalability
* Created automated B2B tender matching system with custom notification engine for client defined criteria

**Additional Experience** 08.2009 – 01.2010

Senior Consultant - Natural Language Scheduler Interpreter for text Channels (SMS, Twitter, IM), MisoLabs, LLC, US/Russia

Senior Software Developer & Offshore Development Manager, Cafepress, US/Russia

Senior Consultant, Lotys, LLC, US/France/India

Engineering Director, Sun Metrics Global, LLC, US/Russia/Japan

Co-Founder, Sun Metrics, Inc., US/Japan

Chief Java Architect, Accruent Corp., US

Java Architect, Vignette Corp., US

# **Education**

# 

**University of Michigan** B.S. Mathematics , Minor Computer Science