

ATTILA KOCSIS

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Experience

10+ years of experience in software development. Experience of architecting and designing solutions and providing code reviews/mentoring to more junior developers. Passionate and driven by good coding practices and maintainable, scalable, test-driven design.

Personal skills and competences:

Computer skills:

- Deployed containerised microservices making use of K8s, Docker, Spring Boot, make them communicate with each other and other data centres using REST protocols and MongoDB in commercial environment.
- Proficient with Java, JVM, GC, multithreading, low latency, high volume, concurrency
- HTML, XML, JSON, SQL, JMS, UM, SVN, Git, Maven, Gradle
- Jenkins to build, package, test and deploy software in a CI/CD environment.
- Some exposure with Python, C++, MQTT, AMQP, Spring, REST, TeamCity, NOSQL, Hibernate.

Work Experience:

01/2021 – Senior Software Engineer/consultant, First Derivatives, London

Focusing on providing consulting services to the capital markets industry, FD provides services in a broad range of subjects.

First Derivatives:

- Mentoring other team members, conducting peer reviews, knowledge sharing on a regular basis

Citi Bank:

- Provide support to adhere to regulatory and compliance expectations and onboard new venues for trading data processing and persistence
- Ensuring the remediation of data quality, compliance, and trade surveillance issues for the FXCO program.
- Enhanced overall design of the framework to become more robust, enhanced exception handling, integrated with 3rd party APIs to instrument the data stream while conforming their internal messaging standards, enabling cross-reference and enrichment before sent downstream for persistence and compliance checks.
- Managed to stabilise memory consumption of many of the components by using efficient caching, throttling, memory compression techniques, and thread pool optimisation, while improved trade data throughput of said components.
- Featured a replay API allowing client to retrospectively correct erroneous data persistence, and refactored code base to leverage performance and maintainability improvements, newer technologies.
- Helped to implement trade data onboarding, data validation against a centralised cache used by real time risk calculation via a set of microservices using Spring, Lombok, Kafka in an ECS clustered microservices architecture

Technologies used:

Java, Jenkins CI/CD, Junit, SQL Databases, Agile, Scrum, JMS, Kafka, event-driven, async, messaging, Elasticsearch, Splunk, OpenShift,

05/2017 – 04/2020 Software Engineer, Software AG, London

Software AG is a Germany based enterprise software company with 50% of the Fortune 100 customers as their partners. The product is a single solution providing high performance and low latency messaging service across a wide array of delivery channels, including all enterprise, web and mobile platforms. The product was developed in Java server side with client API development in js, Python, C++ and C#.

My role:

- As a software engineer, I was a part of the SAG core team responsible for maintaining its messaging product, focusing on both innovation and quality and to conform to MQTT, AMQP and JMS messaging standards to ensure security and performance efficiency even on low-bandwidth or intermittent networks, and on devices where processing or power resources may be limited.
Provided support to Pub/Sub and messaging queues in async/async transactional or non-persistent way.
Addressed challenges around fail-over techniques in mission-critical messaging applications.
Worked with active/active and 3rd party active/passive clusters.
Implemented performance sensitive data structures and algorithms to ensure high availability.
- While fixing an issue involving the dead event store, I discovered a cluster synchronisation problem causing messaging to be lost in certain scenarios and designed and implemented a more reliable and efficient way to manipulate these stores among servers in clustered environment. Another issue I have managed to improve how the client API handled clustered servers going offline and coming back on. In many such situations the client side failed to synchronise properly with the newly formed cluster or the re-joined node. I improved the API to ensure the nodes were discovered and their states were reported correctly.
- The company was very process driven and I learnt to maintain and develop new policies and processes with industry leading tools to ensure we can create, build, compile, package and test our software and provide reports to analyse them.
- The company's recent focus on subscription based microservices on the cloud allowed me to have an insight how to deploy, maintain and scale systems in an independent event-based solution.

Technologies used:

Java, Python, Multi-threading, C++, Jenkins CI/CD, Junit, SQL Databases, Agile, Scrum, Kanban, low latency, JMS, MQTT, AMQP, event-driven, async

02/2013 – 05/2017 Core Java Software Engineer, Travelfusion Ltd., London

The company owns a high-transactional business platform (200M+ daily sessions) which operates the world's largest direct connect distribution and payment system, directly linking hundreds of travel suppliers to online travel agencies, booking tools and travel search services. An interesting aspect of the product was how the supplier integrations were dynamically loaded into production servers on demand to allow the operations team to apply fixes without patch/downtime.

My role:

- My role as part of the core team was to improve the service, maintain system stability and develop new products.
Worked in an extremely agile environment and took ownership of the tasks I was involved in.
Last two years I spent as the lead developer of a project to provide an online flight check-in service handling sensitive personal data and provide passengers with automated boarding passes.
- During my employment I have found an issue and improved the way the system is synchronizing tasks among our application servers. I have also designed, implemented and maintained a module to obtain flight schedule information via parallel downloading in a customizable multithreaded environment, which allowed the company to obtain a large amount of data magnitudes faster.
- Other tasks included addressing ad-hoc system stability concerns or improving our core codebase. Occasionally, I also helped the operational side where quick fixing of one of our supplier integrations was required.

Technologies used:

Java, Multi-threading, Low Latency, Agile, instrumentation

02/2013 – 10/2013 Monitoring executive, Travelfusion, London

Monitor real-time booking system using internal reporting tools. Identify problematic patterns and liaise with clients and/or relevant technical department. Analyse various performance statistics to improve operational performance. Offer post-booking technical support while maintain discretion to sensitive data.

05/2012 – 02/2013 Manager on Duty , The Zetter Hotel, London

Management of 2 residential buildings, a restaurant, a cocktail bar and 4 function rooms including all departments. Supervise and assist with functions, including exclusive hire of the hotel, weddings and business conferences. Communicate business needs to the night managers and porters to ensure smooth operations. Prepare financial statements to help with accounting and business development. Conduct training of all aspects related to front of house and managing the daily operations.

03/2010 – 05/2012 Night manager (Zetter)

Oversee the front desk responsibilities and to supervise reception staff to achieve excellence in customer service. Night audit and cash handling of both the hotel and the restaurant. Ensure all health and safety regulations are followed within all properties.

05/09 – 03/10 Receptionist (Zetter)

Check in and out, interact with guests during their stay and perform various concierge duties to enhance their experience.

12/07 – 05/09 Hall Porter (Zetter)

Welcome guests, help them with luggage, show them the hotel facilities and assist to ensure their pleasant stay and satisfaction.

04/2011 – 09/2011 Summer internship, Information Technology and Services System X Services Ltd.

Responsible for diagnose & resolve hardware, software & end user problems. Act as the first point of contact for all IT & technical queries. Develop the infrastructure and systems to meet the companies' needs. Work within a TCP/IP network environment, including DHCP,

DNS and Ethernet. Assist in the rollout of software updates and patches. Investigate specialist and complex IT support issues. Communicate with third party technical specialists. Configure and manage backup & restore procedures. Maintain a wide range of computer hardware and software programs. Identify & report on the budgetary implications of IT projects and upgrades.

Education:

09/2010 – 10/2015 Open University BSc (Honours) Computing and IT

Modules studied included: Applied computer science (data structures and algorithms, designing and implementing software systems, mobile software, database management systems), data mining, performance, analysis of software systems, distributed systems, object orientated programming (JAVA), artificial intelligence

09/1999 – 06/2001 Attila Jozsef Science University of Computer Science and Design

Szeged, Hungary

Subjects studied included: design and composition, print production, logo design, web design

Interests:

Sports (rock climbing, football), films, rock music, travelling.