

Nodir Siddikov

Software Engineer

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WORK EXPERIENCE

Software Engineer, Container Security - Vice President

[Citibank](#) 08/2023 - Present London, UK

Project: VSaaS - Vulnerability Scanning as a Service for container images

- Developed VSaaS, an API-driven microservice, using Python to run vulnerability assessments on Citi-native container images and to generate an actionable report for DevOps to help uncover and fix vulnerabilities
- Migrated VSaaS scanner engine from Twistlock to Aquasec, thus reducing the scan failure rate from 12% to 1%
- Integrated VSaaS into Citibank's CI/CD pipeline to secure its software supply chain
- Developed observability page with Kibana for visual monitoring of VSaaS performance which reduced time to respond application downtimes by 35%
- Partnered with Managing Director to run Engineering Excellence sessions about Version Control and Github Copilot (AI) to raise maturity level of over 100 engineers
- Authored a new joiner guide and published it on Confluence, mentored new joiners to the team and provided feedback on their mid-year and end-of-year performance reviews

Software Engineer, Trading Platforms - Senior Associate

[JPMorgan Chase](#) 01/2022 - 08/2023 London, UK

Project: Execute - FX and Commodities trading platform

- Implemented an order management system (OMS) for Execute to book trades to in-house Athena platform for execution
- Integrated OMS with internal regulatory service's REST API to run background checks and compliance checks (EBC, AML, KYC) on trading counterparties
- Used OpenFin for frontend, Spring Boot for backend microservices, Solace to exchange messages, Google protobuf to format FIX messages (Quote, RFQ, TradeCaptureReport)
- Optimized Elasticsearch boolean queries (must, should and filter) in Data Services API to reduce response time to 100 ms
- Authored a new joiner guide and held onboarding sessions for newcomers to the team, acted as a positive change agent to issues related to DEI within the organization

Software Engineer, Trading Platforms - Assistant Vice President

[Deutsche Bank / BNP Paribas](#) 09/2020 - 12/2021 London, UK

Project: Drop Copy Adaptor (DCA) to audit and archive trades

- Developed DCA to validate and normalize FIX messages (NewOrderSingle and ExecutionReport) of 5 million daily trades and to publish to downstream via Solace
- Implemented multi-day ordering in DCA using Java to handle GTC (good till canceled) and GTD (good till date) orders which accounted for 40% of total daily trades
- Migrated DCA to in-house ServerGrid platform to automate deployment operations
- Transferred from Deutsche Bank to BNP Paribas in 2021 as part of acquisition of Global Prime Finance & Electronic Equities business

Software Engineer

[Travelfusion](#) 01/2019 - 09/2020 London, UK

Project: Travel content aggregation platform

- Integrated Travelfusion's C5 booking platform with 5 airline companies' APIs to aggregate daily flight routes, schedules, fares and used Redis to cache API call responses
- Implemented the IATA NDC data exchange standard based on Offer and Order XML messages
- Developed web crawlers using Java to scrape flight data from airline websites

Senior Software Engineer

[Luxoft \(UBS Contractor\)](#) 11/2017 - 03/2019 Krakow, Poland

Project: Massively parallel data streaming pipelines

- Designed real-time and snapshot-based data pipelines to download FIX-based reference data from upstream, to persist into Oracle and Cassandra, and to distribute to downstream applications using file extracts, REST API and messaging queues
- Used Spring Batch to simplify ETL operations such as data masking and data enrichment on 12 million daily trades

Software Developer

[Site Labs](#) 03/2017 - 03/2018 Tashkent, Uzbekistan

Project: Parcel booking API for Wing.ae, an Amazon Prime-style delivery platform

- Integrated Wing.ae platform with SOAP/REST APIs of delivery couriers to pass shipment data for order fulfillment and real-time tracking

Software Engineer

[Sunet Technology](#) 08/2014 - 09/2015 Tashkent, Uzbekistan

Project: ERP system for Uzbekinvest, a car insurance company

- Designed an online insurance application form, a wizard to calculate insurance premium and an insurance policy printer using Spring MVC, Java and Hibernate

Software Engineer

[Coscom \(Ucell\)](#) 10/2011 - 07/2014 Tashkent, Uzbekistan

Project: Reporting tool based on SMS for a network operations center

- Developed SMS notification service for IBM Netcool alarm monitoring system using Java and SMPP API, which compiled the status of cellular BTS towers into a report and sent it to network operations center (NOC) for analysis

TECH STACK

Java Python Spring Cassandra Oracle

Elasticsearch Linux Bash TDD Docker

Kubernetes Git AWS REST APIs

Hashicorp Vault OpenShift CI/CD tools

OUTSIDE ACTIVITIES

MLH Coach

Major League Hacking

01/2023 - 08/2023 Remote

- Ran monthly online Global Hack Week events
- Helped MLH create a safe space for students to discover their talents through online streaming events

Code For Good Hackathon

JPMorgan Chase

11/2022 - 12/2022 London, UK

- Acted as a mentor to guide and advice the three teams of six developers on technical topics
- Evaluated eighteen candidates on the team for internship and full-time opportunities at JPMorgan Chase
- Judged the team solutions based on five criteria (innovation, addressing a specific nonprofit's challenge, impact, extensibility and inclusivity) to determine the winners of the hackathon

React Developer

eswapp.com

08/2019 - 12/2019 London, UK

- Developed eswapp.com's skill swapping platform on React using Material UI and deployed the MVP to AWS
- Traveled to Vienna, Austria to present eswapp.com MVP in The Ventury startup accelerator

EDUCATION

M.S. in Advanced Computing

King's College London

10/2015 - 11/2016 London, UK

- Graduated with Distinction
- Awarded with Cheneveng Scholarship for leadership potential in IT industry

M.S. in Computer Science

Rochester Institute of Technology

09/2009 - 08/2011 Rochester, NY

GPA 3.85 / 4.00

- Selected among 450 candidates for Fulbright Award

B.S. in Business Computing

University of Westminster

10/2003 - 06/2007 London, UK

- Graduated with First Class Honors
- Awarded with fully funded Uzbek government scholarship