

+49 17627571704  
Berlin, Germany

## NABEEL BUKHARI

[nabeel.bukhari@hotmail.com](mailto:nabeel.bukhari@hotmail.com)  
<http://www.linkedin.com/in/nabeelbukhari>  
<http://nabeelbukhari.github.io>

### SPECIALITIES

**Gumptions, Problem Solving, System Design, Ownership, Leadership/Mentoring, Algorithms, Data-Oriented**

### EMPLOYMENT

Senior Software Engineer	Zalando SE	December 2021 – Present
Platform Engineer – Edge Routing & GraphQL		
<ul style="list-style-type: none"><li>Led a performance optimization initiative that resulted in a <b>50% reduction in AWS-related costs</b>. This was achieved through a multi-pronged approach: <b>migrated workloads from x86 to ARM-based Graviton instances</b> to take advantage of better price-performance, <b>optimized Kubernetes resource allocation</b> to eliminate overprovisioning, <b>identified and resolved bottlenecks in hot code paths</b> to reduce CPU usage, and <b>enhanced GraphQL query efficiency</b> by improving data-fetching strategies and eliminating redundant or over-fetched data.</li><li>Implemented rate limiting at the edge routing layer to protect the system from unwanted or abusive traffic without impacting legitimate users. Designed and deployed multiple traffic classification filters to analyze request behavior, enabling the system to identify and categorize different types of users (e.g., bots, partners, real customers). Defined and applied tailored handling strategies for each traffic category to balance protection, performance, and user experience.</li><li>Designed, developed, and maintained GraphQL services and a JIT compiler, including schema modeling for new use cases and migration of legacy APIs. Implemented <b>nested field filtering</b> to optimize data-fetching strategies and improve query performance.</li></ul>		
Staff Software Engineer	Booking Holding - Agoda	February 2021 – November 2021
Multi-Product Booking Engine		
<ul style="list-style-type: none"><li>Leading the effort of implementing multiple redirect payment methods which include both synchronous and asynchronous flows.</li><li>It requires careful designing of new flows which helps with easy integration of new payment gateways hence adding the flexibility of new payment methods development while maintaining good practices and produce high quality software.</li></ul>		
Senior Full Stack Engineer		January 2017 – January 2021
Booking Form		
<ul style="list-style-type: none"><li>Led the design and development of the Web UI (Desktop/Tablet) using React, delivering major milestones that covered over 50% of traffic within a year.</li><li>Built a unified booking gateway and integrated new backend systems, streamlining booking across Web and App platforms.</li><li>Achieved major performance improvements, reducing page load time from 1200ms to 400+ms (P90), and added resiliency using circuit breakers to prevent load spikes.</li><li>Delivered business-impacting features through A/B testing, contributing to a 20% increase in bookings.</li><li>Developed new payment models and end-to-end funnel flows in coordination with multiple Agoda systems, while also managing and resolving critical production incidents.</li></ul>		
Senior .Net Developer	Veripark	September 2015 – December 2016
Veribranch		
<ul style="list-style-type: none"><li>Optimized core operation performance by introducing caching, parallel execution of independent tasks &amp; non-blocking IO operations with filtration of sensitive data using masking while logging.</li><li>Working with client team in decommissioning of VeriPark Integration Layer and replacing it with light weight transformation layer which increased performance by 2x.</li><li>Design and development of core business use-cases for retail banking system like cash deposit/withdrawal, loan handling/disbursement, loan/credit lending, debit/credit card operations etc.</li></ul>		
Senior Software Engineer	MFsys Pvt. Ltd.	May 2014 – August 2015

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- Enhanced Centralization compatibility with DB2 and MySQL with smooth configurable deployment both on WebLogic and WildFly.
  - Improved Centralization with Load Balancing and High Availability using WebLogic Clustering, HAProxy and MySQL Fabric Replication.
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**Software Engineer****September 2012 – April 2014**

- Centralization of CM&B with migration of application technology from EJB 2.0 to EJB 3.1, Business logic rewriting and performance improvements.
  - Middleware development for Inter-Branch transactions over network with store and forwarding capability.
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**Web Developer****Banckle****Oct 2011 – July 2012**

Banckle Web/Admin/Payments

- Payments Module development including features for products, plan schemes, promotions, purchases, account subscription, affiliate tracking and transaction management.
  - Integrated National Australian Bank and Dynabac Billing with Banckle Payments System
  - Full stack development with J2EE and spring included developing and testing APIs for data access, business logic and UI; maintaining CMS solution for Banckle Web, deployment and maintenance.
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**Software Engineer****Interactive Group of Companies****August 2010 – Oct 2011**

Hospital Management System

- Back-End development using J2EE on multiple modules of HMS. Designed reporting API on top of Aspose APIs for binding data for printing reports using templates.
  - Development includes writing and testing APIs for data access and business logic.
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**EDUCATION****National University of Computer and Emerging Sciences, Islamabad.****Fall 2006 – May 2010**

- B.Sc. in Computer Science, May 2010. In-major GPA: 3.4.
  - Coursework: Data Structures; Algorithms; Databases; Programming Languages; Operating Systems; Artificial Intelligence; Comp. Networks; Numerical Analysis.
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**ADDITIONAL EXPERIENCE AND AWARDS**

- **Instructor (2008 – 2009):** Taught two full-credit Computer Science courses; average ratings of 4.8 out of 5.0.
  - **Third Prize, Senior Design Projects:** Awarded 3<sup>rd</sup> prize for Synchronized Calendar project, out of 100 projects.
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**Languages, Frameworks and Technologies****Languages:** C#, Golang, Java, Typescript**Databases:** Microsoft SQL Server, MySQL; IBM DB2; Redis, Couchbase**Servers:** IIS; Oracle WebLogic; Wild Fly;**Tools/Technologies:** Node.js, ASP.NET MVC/Core + WebApi, REST, React, Knockout.js, Redux, Bootstrap, HTML, Gulp, Webpack, Consul, Light step, Kibana, GitHub, ReSharper, Grafana**CI/CD:** Team City, SonarQube, Docker, Podman, Kubernetes**Testing:** NUnit, Moq, Jasmine, Jest, Regression Tests with Selenium and Integration Testing with Cypress**Tracking:** Jira, Confluence, Github Issues**Agile Methodologies:** Scrum