

# ABDOUL AZIZ DIOP

## Senior Senior Software and AI Engineer

### SUMMARY

Innovative Senior Software and AI Engineer with 13+ years of experience across backend, frontend, mobile development, and system design. Skilled in Python, Node.js, PHP, C#, Java, cloud-native architectures, and modern frameworks including React, Next.js, Angular, React Native, and native Android. Experienced in building scalable applications, developer tools, and intelligent automation that improve SDLC efficiency. Strong background in CI/CD, OOP, performance optimization, and testing frameworks for high-impact engineering teams.

### TECHNICAL SKILLS

<b>Main Technical Skills</b>	Python, Node.js, C/C++/C#, Java, PHP
<b>Programming Languages</b>	Dart, Java, JavaScript, PHP, Python, TypeScript
<b>Android Libraries and Tools</b>	Android APIs
<b>JavaScript Frameworks</b>	Angular, Express, Ext JS, Node.js
<b>.NET Platform</b>	ASP.NET MVC
<b>C++ Libraries and Tools</b>	C/C++/C#
<b>Python Frameworks</b>	Django REST framework
<b>PHP Frameworks</b>	Laravel
<b>Mobile Frameworks and Libraries</b>	OneSignal
<b>Java Frameworks</b>	Spring
<b>Data Analysis and Visualization Technologies</b>	k-NN
<b>Databases &amp; Management Systems / ORM</b>	MongoDB, MySQL, PostgreSQL
<b>Cloud Platforms, Services &amp; Computing</b>	AWS
<b>Azure Cloud Services</b>	Azure DevOps, Azure MSSQL
<b>Methodologies, Paradigms and Patterns</b>	Agile, OOP, Scrum
<b>SDK / API and Integrations</b>	Android APIs, Facebook Auth



<b>Version Control</b>	BitBucket, Git, Github Actions
<b>Deployment, CI/CD &amp; Administration</b>	CI/CD, Jenkins
<b>Virtualization, Containers and Orchestration</b>	Docker, Kubernetes
<b>Operating Systems</b>	iOS
<b>QA, Test Automation, Security</b>	NUnit, xunit
<b>Blockchain and Decentralized Software</b>	Optimism
<b>Other Technical Skills</b>	LLMs

## WORK EXPERIENCE

### Senior Software Engineer - MICROSOFT (Developer Tools and Intelligent Automation)

**Duration:** October 2024 – March 2025

**Summary:**

- Design and implementation of high-impact developer tools and intelligent automation systems to optimize the software development lifecycle (SDLC) and enhance internal engineer productivity
- The project includes building cloud-native backend services and real-time intelligent automation systems to improve developer experience

**Responsibilities:**

- Design and implement developer tools and intelligent automation in C#.
- Build cloud-native backend services and real-time automation using RESTful APIs and SignalR.
- Implement intelligent testing initiatives with xUnit and NUnit to reduce defects.
- Manage CI/CD pipelines and containerized environments using Azure DevOps and Docker.

**Technologies:** C#, RESTful API, SignalR, xUnit, NUnit, Azure DevOps, Docker, cloud-native architectures

### Senior Software Engineer - KOUBRAH (Cloud-Native Backend Infrastructure and Enterprise Applications)

**Duration:** March 2018 – August 2024

**Summary:**

- Development of scalable cloud-native backend infrastructures and developer-centric enterprise applications
- The project focuses on optimizing system performance and scalability for thousands of users through advanced data storage solutions and system design strategies



**Responsibilities:**

- Design scalable cloud-native backend infrastructures applying Object-Oriented Programming principles.
- Implement data storage solutions using MSSQL and MongoDB.
- Manage CI/CD pipelines with Azure DevOps and Docker to optimize developer experience.
- Mentor teams on code quality and lead intelligent testing initiatives.

**Technologies:** MSSQL, MongoDB, Azure DevOps, Docker, Object-Oriented Programming (OOP), cloud-native architectures

**Senior Full Stack Engineer - KICKFIN (Distributed System Design for Financial Transactions)**

**Duration:** June 2015 – February 2018

**Summary:**

- Architecture and maintenance of complex distributed systems supporting high-volume financial transactions
- The project ensures secure APIs and high-availability backend development to maintain zero downtime during peak traffic

**Responsibilities:**

- Architect and maintain distributed system designs using React, C#, and cloud-native infrastructures.
- Implement secure APIs and backend patterns for high availability.
- Optimize full stack performance to reduce server response time.

**Technologies:** React, C#, cloud-native infrastructures

**Full Stack Developer - HAWKSEARCH (Search-Driven Backend Systems)**

**Duration:** August 2012 – May 2015

**Summary:**

- Development and optimization of search-driven backend systems to improve search response times
- The project includes implementing automated CI/CD pipelines to streamline deployment cycles and mentoring junior developers

**Responsibilities:**

- Build and optimize backend systems using Java and ASP.NET.
- Implement automated Jenkins CI/CD pipelines.
- Mentor junior developers on OOP best practices and code maintainability.

**Technologies:** Java, ASP.NET, Jenkins, CI/CD

**EDUCATION**

- **Bachelor's degree in Computer Science**  
Texas State University  
January 2007 – January 2011



## CERTIFICATION

- **Professional Scrum Master I**  
Scrum.org, <https://www.scrum.org/certificates/619751>  
Issued Jan 2023
- **Professional Scrum Master™ I (PSM I)**  
Scrum.org, <https://www.credly.com/badges/c17f10ff-c0a4-4356-a0bd-a5d8d61bfc6b>  
Issued Jan 2023
- **AWS Certified Solutions Architect – Associate**  
Amazon Web Services (AWS), <https://www.credly.com/badges/e04feea2-704d-4788-8d12-55b403e5ec9e>  
Issued Oct 2021 · Expired Oct 2025
- **Certified SAFe® 5 Scrum Master**  
Scaled Agile, Inc., <https://www.credly.com/badges/167ad36f-a23e-4b2e-8d70-0b82b459ecd0>  
Issued Feb 2024

