**Afzal Ahmed Khan**

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**Professional Summary**

Backend Developer with 8 years of experience, including hands-on experience in Python development. Specializing in Python, C, Pro\*C, C++ and SQL. Proven expertise in maintaining and optimizing legacy systems, improving database performance, and automating workflows. Skilled in debugging complex issues using GDB, working in Linux environments, and collaborating with teams using Git and Jira. Experienced in Python scripting, cloud migration using AWS, and implementing object-oriented programming principles in C++.

**Technical Skills**

Primary Language: Python

Other Language: C, Pro\*C, C++

Operating Systems & Scripting: Unix, Shell Scripting  
Cloud Platforms: GCP, AWS   
Databases: Oracle, MySQL

Version Control & Repositories: Git, GitHub , Bitbucket

CI/CD & Automation: GitHub Actions, DevOps Practices

Monitoring & Logging: Splunk

Debugging and Development tool: GDB, Jira   
Methodologies: Agile, Scrum   
Others: Object-Oriented Programming (OOP), Performance Optimization, Legacy System Maintenance

**Certifications**

* Google Cloud Platform – Associate Cloud Engineer
* DevSecOps

**Work Experience**

**Senior Software Engineer | HCL Technologies**

Duration: January 2022 - Present

***Project: Experian Credit Reporting***

• Maintained and modified legacy C code for Experian's Credit Reporting system to address change requests and optimize performance.  
• Converted core modules into Python to enhance system functionality and maintainability.  
• Ensured seamless integration and testing for stable application functionality.

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***Project: Collection Advantage (AWS Migration)***

• Developed Python-based backend scripts to support migration of legacy systems to AWS cloud.  
• Utilized AWS services for deployment, improving scalability and performance.  
• Collaborated with cross-functional teams to streamline migration, ensuring minimal downtime.

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Duration: March 2017 - January 2022

***Project: Customer Price Expectation***

• Designed and developed business logic for customer pricing module.  
• Developed key components using C++ to optimize processing speed and memory management.

• Improved data retrieval efficiency by 15% through optimized queries in Pro\*C.

***Project: ICICIDirect Prime***

• Developed logic for Prime subscription plans, increasing user adoption by 20%.

• Automated accounting workflows, reducing manual effort by 30%.

***Project: Database Optimization***

• Improved query performance, reducing execution time by 30%.  
• Refactored critical algorithms in C++ to further optimize database access and system efficiency.

• Enhanced system stability by optimizing database structures.

***Project: ICICIDirect PMS***

• Implemented PMS registration functionality, reducing customer onboarding time by 40%.

• Designed subscription and top-up workflows, ensuring smooth user experience.

**Education**

* Postgraduate Diploma in Advanced Computing (PG-DAC) - CDAC Mumbai, India (2016 - 2017)
* B.E. in Information Technology - Mohammed Haji Saboo Siddik College of Engineering (2012 - 2015)
* Diploma in Information Technology - Mohammed Haji Saboo Siddik Polytechnic (2009 - 2012)

**Strengths**

* Strong analytical and debugging skills.
* Adaptive team player with a keen willingness to learn new technologies.
* Proactive in improving system performance and reliability.