

Shamveel Ahammed

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Professional Summary

Experienced full-stack developer with strong problem-solving skills and a focus on teamwork. Proficient in a range of technologies, I excel in collaborative environments, driving projects forward with innovative solutions.

Experience

Barclays Bank PLC

Glasgow, UK

SOFTWARE DEVELOPER

Sept. 2022 - Present

- Managed the daily development, testing, maintenance, and release management of a critical in-house web application for UK Equities Order Execution and Management Platform. The platform is instrumental for in-house dealers and traders, facilitating trade completion, tracking, and management.
- Led efforts to enhance and automate the CI/CD process, resulting in more frequent and seamless code releases, accelerated build times, increased flexibility, and elevated quality engineering standards within the team. Utilized technologies such as Jenkins, Groovy, and Python to achieve these improvements.

GRADUATE DEVELOPER

Aug. 2020 - Aug. 2022

- Contributed to the Angular 14 migration for the ETW application, operating within a monorepo framework and micro frontend architecture. My primary responsibilities included seamlessly integrating the Cypress end-to-end testing framework into the source code and conducting unit testing for Angular components.
- Managed the development and rigorous testing of feature enhancements for the Barclays Trade Services application, meticulously aligning with bespoke business requirements from the eFX Trading teams. The application utilised a sophisticated multi-threaded C++ architecture using boost libraries, with the front-end UI based on Java Swing.

IBM UK Ltd.

Hursley, UK

INDUSTRIAL PLACEMENT SOFTWARE ENGINEER

Jul. 2018 - Aug. 2019

- Collaborated on the development of a full-stack web application, utilizing the Sinatra Framework. The application was designed to monitor usage metrics and server statuses across all department-owned servers via a central dashboard. Additionally, I created custom widgets to visually depict real-time project progression and metrics.
- Deployed microservices onto the Docker Swarm, to run the services stacks used by various department applications. This involved managing the JFrog Artifactory connections and monitoring the Travis CI for new builds.
- Implemented features and bug fixes for multiple Java based multi-threaded scanning tools, used in the process of Bluewashing newly acquired products.
- Co-authored a utility tool for identifying all the packages installed on a Docker image, used for clearance purposes.
- Operated as part of the systems administrator team to monitor the health and functionality of the department's build servers.

Mohona Packages (BD) Ltd.

Dhaka, Bangladesh

TECHNOLOGY ANALYST

Jul. 2017 - Aug. 2017

- Developed a cutting-edge logistics application with a user-friendly interface to streamline client order processing and generate comprehensive production reports and invoices. This initiative resulted in a remarkable 50% reduction in order processing times.
- Designed and developed the company's website (mohonapack.com)

MagnaPass

Manchester, UK

SUMMER INTERN

Jul. 2016 - Aug. 2016

- Developed new features for the website and carry out various bug fixes before each release.
- Engineered a Python script to transfer user data over from MailChimp to an on-premise database.

Trade Young International Company Ltd.

Dhaka, Bangladesh

WEBSITE DEVELOPER

Jun. 2016 - Jul. 2016

- Served as the primary lead in the development of the company's website. (tradeyoung.com).
- Regularly consulted with stakeholders to implement UI design changes, prioritizing a customer-centric approach that resulted in a 30% increase in company sales figures.

University Work Experience

- 2020 **Computer Science Student Ambassador**, at University to assist prospective students on Visit Days
- 2017 **Media and Communications Manager**, managed all social events for Bangladesh Student Society
- 2016 **HORnet Representative**, support staff for university halls computer network clusters
- 2015 **University PASS Leader**, support first-year students in transitioning to the University life

Education

The University of Manchester

Manchester, UK

MENG IN SOFTWARE ENGINEERING (HONS) WITH INDUSTRIAL EXPERIENCE

2015 - 2020

- **First Class Honours**
- Main Courses: Software Engineering, OOP with Java, Algorithms, Machine Learning, Distributed Systems, Database Fundamentals, Computer Vision, Computer Graphics, User Experience
- Third Year Project: Demonstration of Object Detection for the Visually Impaired (76%)

International Hope School Bangladesh

Dhaka, Bangladesh

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2012 - 2014

- Mathematics (A*), Pure Mathematics (A*), Physics (A), Chemistry (A).

Skills

Programming	Python, Java, Ruby, R, C, C++, Bash, OpenGL, Verilog, Assembly Language, Matlab, Groovy, XQuery, SPARQL
Tools	Eclipse, IntelliJ, Xcode, Android Studio, Ant, Gradle, Jenkins, Travis, JIRA, Trello, Veracode, IBM Bluemix, Sonarqube
Web	HTML5, PHP, CSS3, Javascript, MySQL, MongoDB, JSON, XML, Docker, Kubernetes, Amazon Web Services, Git
Frameworks	Sinatra, Ruby on Rails, Flask, Spring MVC, JUnit, Cypress, Angular, PyTorch, Tensorflow, Flutter

Projects

SMAART

- Led a team in an IBM giveback project titled 'Systems Maturity Assessment, Analysis & Roadmapping Tool', extensively utilized for Systems Consulting engagements across multiple IBM consulting teams.

Third Year Project

- Conducted a third-year project and dissertation on 'Demonstration of Object Detection for the visually impaired', involving the development of an application utilizing Google's Tensorflow API trained on the ImageNet dataset. This application enabled real-time object detection with auditory feedback.

Stendhal

- Contributed to the development of an extensive open-source client-server project called Stendhalgame.org, comprising over 6000 Java Classes. Utilized Eclipse, Apache Ant, Jenkins, and JUnit Testing as key tools during the second-year Software Engineering project.

Eventlite

- Designed and implemented a scalable client-server web application as part of a Software Engineering group project. Leveraged Java's Spring Framework, integrating third-party APIs and incorporating REST web service functionalities.

Machine Learning Projects

- Implemented various machine learning algorithms, including K-Nearest Neighbors and Perceptrons, for university projects on 'Hand-writing Recognition' and 'Email Spam Filtering'.

Whispers

- Collaborated in a team to develop an online version of the 'whispers' telephone game for a first-year project. The project featured personalized dashboard profiles for players, each tasked with recreating and sending an 'object' to other players. This iterative process resulted in a trail of attempted drawings as each subsequent player followed the preceding steps.

Honours & Awards

2022	Cloud Practitioner , AWS Certified	Glasgow, UK
2017	Bronze Award Winner , Manchester Leadership Award	Manchester, UK
2015	Winner , BAE Systems Capture the Flag Challenge	Manchester, UK
2014	First Prize for Country Highest Marks , The Daily Star Award	Dhaka, Bangladesh