Asfandyar Ashraf Malik

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Work Experience

- **Culturly, Hamburg, Germany** **Python, React, AWS**
  Software Engineer / Product Lead *April 2020- now*
  - Architect and Lead Engineer of Culturly Web Application and Slack Application. I was responsible for building the frontend, backend, deploying the code on AWS and creating CI/CD pipelines for automatic deployment.
  - Built the Slack app which collected information natively inside slack and displayed analytics inside the Web Application.

- **HandEX, Hamburg, Germany** **Ruby on Rails, Javascript, Java, AWS**
  Software Engineer / CTO *Jan 2019 - March 2020*
  - Architect and Lead Engineer of HandEX Web application. This application is a secure end to end finance applications where companies submit applications to get cross border loans in range from 300k - 2 Million Euros.
  - Responsible for building the whole architecture, writing frontend and backend code and deploying it on cloud(AWS).
  - Automatically integrated direct KYC(Know your customer) into the platform.
  - Lead a team of 5 engineers to build this.

- **Palsplate, Hamburg, Germany** **Ruby on Rails, Javascript, Heroku**
  Software Engineer *Jan 2017 - Dec 2017*
  - Built the initial product of Palsplate marketplace. Palsplate is an marketplace which connects hobby chefs in neighbourhood with people who love home-made food.
  - Responsible for frontend, backend, cloud deployments. Palsplate is an marketplace which connects hobby chefs in neighbourhood with people who love home-made food.

- **Cubic Corporation, Hamburg, Germany** **Java**
  Senior Software Engineer *December 2017 - December 2018*
  - Build application which automatically bought bus, train tickets for Users using their GPS information and leveraging GTFS data from Google for station and route data.

- **Kreditech Holding SSL, Hamburg, Germany** **Java, Node**
  Software Engineer *October 2016 - November 2017*
  - Architect/Lead Engineer who integrated and maintained around 55 external services at Kreditech. At Kreditech, we underwrote more than Billion dollars and scoring was done using data collected through these services.
  - Responsible for integration of REST/SOAP services.

- **Kreditech Holding SSL, Hamburg, Germany** **Java, Hadoop, Spark, Mesos**
  Data Engineer *March 2015 - October 2016*
  - Dataprocesses and data storage reserves from Kreditech are abstracted on to Hadoop/Spark. Modern cluster managers and computing frameworks, provisioning tools and container orchestrator platforms, etc, are used. With a more stabilized and sustainable system, this project improves resource efficiency and visualization, making dataprocessing around 200% faster.
  - Technical Lead of web application, KontoKonnect. Around 25% of the most valuable features used by our scoring algorithm are generated by this web application helping reduce default rates and in turn saving Millions. This centralized platform collects data via scrapers and APIs and parses them carefully to engineer features for our Machine Learning models.

- **Kreditech Holding SSL, Hamburg, Germany** **Python, PHP**
  Technical Operations Intern *October 2014 - February 2015*
  - Improved loan repayment rate of applications by 12% by automating and implementing compliance, anti-fraud and financial checks in the scorecards.

- **Fraunhofer Institute-Medical Image Computing, Bremen, Germany**   **CppUnit**
  Research Assistant   *November 2013 - May 2014*
    - Implemented Integration and A/B tests on medical image processing and visualization framework(MevisLab).
- **Fraunhofer Institute-Integrated Circuits, Nuremberg, Germany**   **C++, ROS**
  Intern   *June 2013 - September 2013*
    - Integrated RTKLIB (real time kinetics library) and ROS (Robot Operating System) with indoor robots. This improved the localization and navigation of the robot, providing better visualizations.

Education

- **Jacobs University Bremen**   Bremen, Germany
  B.Sc. Electrical Engineering and Computer Science   *2011 - 2014*
    - Thesis topic: DGPS for Robot Localization indoors
- **Roots College International**
  University of Cambridge International Examinations, Advanced Level   *2009- 2011*

Projects

- **Mars Rover Project**   **C++**
  Software Engineering Lab project   *2014*
    - Designed a rover which reaches homebase avoiding obstacles. Drafted a language for flexible manoeuvring of the rover, which parses into a C++ code.
- **DGPS for mobile robot localization**   **C++**
  B.Sc. Thesis   *2014*
    - Applied various techniques to improve robot localization. Accuracy of the robot manoeuvrability was improved both indoors and outdoors.
- **Facility Request**   **HTML/CSS, SQL, Bootstrap**
  Web Service   *2014*
    - Developed a facility request website for a residential college(Mercator) of the university.
    - Centralized database features improved management and better tracking of resources. College Master reported that service was essential for in-house logistics.

Skills

- **Dev Advance:** Java, C/C++, Ruby on Rails, SQL, git, Docker
- **Dev Intermediate:** Python, R, Hadoop, MongoDB, Vim
- **Tools:** AWS, Spark, Hive, HBase, Visual Studio
- **Languages:** English (native), German (working proficiency), Urdu (native)

Extracurricular Activities

- **Language Coach at Berlitz:** Taught English to more than 50 kids/teenagers ranging from age 8 till 14.
- **Jacobs Games 12:** Won silver medal with my football team as a captain. Won bronze medal in Table Tennis.
- **Model United Nations:** Took lead organization roles in BRIMUN, SMAMUN, GIKIMUN.

Awards

- 90% Merit Scholarship at Jacobs University Bremen.

- 100% Merit Scholarship at Roots College International.

Interests

- Coding, Football, Investing, Technology, Fitness, Hip-Hop Dancing