

Rumit Mehta

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A Software Engineer with 4 years of industry experience in an agile environment within a financial institution and a keen interest in the FinTech industry. Possess great communication and teamwork abilities due to managing multiple graduates and participating in several charity events around the world, including India, Kenya and Indonesia; as well as excellent analytical and numerical skills gained from previous accounting work and as an engineering student. Able to balance multiple competing priorities, having managed and led societies and non-profit organisations whilst still achieving strict deadlines and maintaining a good work-life balance.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, React, MATLAB, HTML, CSS, JSON, YAML

CI/CD Tools: Jenkins, Chef, Docker, GIT

Logging & Monitoring Solutions: ElasticSearch, MongoDB, PostgreSQL, MySQL

Cloud Infrastructure: AWS (EC2, CloudFormation, lambda, SQS), Terraform.

WORK EXPERIENCE & NOTABLE PROJECTS

Pathhub

Windemere

Senior Software Developer

May 2024 - Current

- Developed a comprehensive Pathology Information Management System (IMS) website using Django & Python to allow pathologists to view and zoom in on multiple cases. The system included features like AI integration, slide annotation and scalable measurements which were built using Django's MVT architecture with a secure MySQL database. I implemented RESTful APIs to integrate the IMS with a LIMS system and designed an intuitive, responsive interface using Bootstrap. The project was deployed using Docker and Azure for scalability and reliability. The completion of this product made a significant impact in securing a major contract for the company creating over a £1 Million in funding.
- Managed and mentored multiple junior developers within the organisation by providing guidance on coding best practices, version control, and debugging techniques, ensuring code quality and consistency across the team. By conducting regular code reviews and knowledge-sharing sessions, I helped the developers improve their technical skills and understanding of complex concepts.

Barclays

Northampton

Platform Engineer (PE)

September 2022 – April 2024

- Working as a Platform engineer, one of my objectives was to minimise costs whilst maintaining performance. I achieved this task by primarily working with AWS, Elasticsearch and Terraform. Having aggregated internal metrics across all the team's clusters I was able to accurately measure which clusters were overprovisioned and downsized them accordingly to save costs.
- Created multiple clusters using Terraform to deploy Elasticsearch's Logging and monitoring service for the bank. The biggest project was creating the bank's first cross-cluster search cluster which was used internally to aggregate and search from the ever-growing number of clusters across the bank. This also familiarised me with several AWS services including EC2 instances, ECS and AWS CloudFormation and other tools such as Lambda, SCP's, SQS queues.
- Created multiple scripts on Python in conjunction with Jenkins to automate processes within the CI/CD pipelines primarily focusing on testing and generating PR comments illustrating the success/failure of the build to the client.

Site Reliability Engineer (SRE)

September 2021 – September 2022

- As an SRE I automated several daily tasks, primarily around onboarding new clients, using a combination of Linux, CHEF and Jenkins whilst also managing existing clients' requests on our team's product - Elasticsearch. One project involved having to aggregate and combine 1000's of datasets in dozens of clusters across the world into a single dashboard for the purposes of a coverage report for a large portion of the Bank.

- A specific project required pulling information from a database and querying that against a set list within Elasticsearch. As there were lots of entries within the database, standard queries to the database were inefficient and CPU heavy, to solve this issue I created various python scripts which filtered and aggregated the relational database and then subsequently pulled that information daily into a document which was then parsed via Logstash transforms. This experience gave a lot of exposure to SQL queries especially with python integration.
- The role of an SRE involved having close communication with several other teams such as build team and L3 support. As a result, I have worked and collaborated on various python scripts across the dev cycle from creating unit-testing files, Jenkins validation scripts and updating code in UAT. This experience has kept me up-to-date with latest standards and consistently developed my programming ability, even within a DevOps role.

Barclays

Software Developer Intern

Northampton

July 2020 – September 2020

- Studied frontend development using React to produce a web application which allows merchants to select various services from the acquiring bank. The major challenge in this project was unit testing using Jest and Enzyme however after revising the documentation I was able to overcome this.
- Shadowed API development via RAML and reviewed code and added unit tests to increase coverage. The API development centred around chargebacks, hierarchies, and permissions. This project gave me a higher understanding of API development from inception to implementation and maintenance.
- Learnt agile workflow and the advantages and disadvantages compared to waterfall methodology. Understood all the major roles in an agile setting such as Product owner, Project manager, Business Analyst, Solution Architect, Scrum Master, and technical developers.

Growify – Masters Dissertation

Student

University of Birmingham

September 2020 – September 2021

- Created an Android application coded using Java in combination with Android Studio which was designed to help users manage and grow their finances and investments whilst algorithmically budgeting their expenses based on unique preferences and existing liabilities. This project taught me a lot about java development as it was a full-stack development project integrating database management (PostgreSQL), Java back end, with frontend using Android Studio.
- Creating a multi-threaded program vastly improved my understanding of programming fundamentals, reliability, and scalability as inefficiencies within the code tend to exponentially decrease performance when using multiple threads.

EDUCATION

University of Birmingham

September 2016 - September 2021

Masters in advanced computer science

- Modules including Machine Learning, Data structures and algorithms & robotics
- Dissertation in Android Development using Java
- Achieved a Distinction (>70%)

Batchelors in Chemical Engineering with Computer Science

- Modules include Machine Learning, Data analysis and Petrochemical Engineering.
- Achieved 2.1 at graduation.

Wyggeston & Queen Elizabeth College

September 2014 – July 2016

A Levels

- Maths – A* Further Maths – A Chemistry – A Physics – A.

SKILLS & ACTIVITIES

Activities: Karate (Black Belt), Mixed Martial Arts, Muay Thai Kickboxing. Advanced PADI Certified.

Interests: Absolutely in Love with scuba diving! I also enjoy playing badminton and chess in my spare time. Love puzzles in general – especially hackathons!

Other: Driving licence & able to relocate/commute throughout the country.