Aakash Mishra

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Education

University of California, Santa Cruz   Sep 2021 - Mar 2023 (expected)
MS in Computer Science and Engineering
Courses: Computer Networks, Distributed Systems, Teaching assistant for Functional Programming Languages

University of Mumbai | K.J. Somaiya College of Engineering (KJSCE), India   Aug 2014 - May 2018
B.Tech. in Information Technology   ***GPA: 8.11/10.00***
Relevant courses: Data Structures, Analysis of Algorithms, Operating Systems, Database Systems

Skills

Proficient in: Java, Spring Boot, SQL, Rest APIs, Microservices, Git
Other: Red Hat OpenShift Container Platform, Docker, Kubernetes, Python, Django, Linux, PHP, JPA, Hibernate, Jenkins, Kibana, RAML, JUnit, Mockito, HTML, CSS
Areas and Interests: Software Engineering, DevOps, Distributed Systems and Cloud

Experience

Barclays Global Service Centre   Pune, IN
Software Developer   *Jul 2018 - Jul 2021*
- Developed and maintained 19 RESTful APIs for high-volume applications(150 TPM approx.) which are consumed across 4 channels in the bank. Used Multi-threading in Java to reduce APIs' response time
- Used Red Hat OpenShift Container Platform(v3) extensively to onboard APIs and manage containers. Frequently deployed APIs to production environment and performed troubleshooting of containers as required
- Conceptualized and implemented an internal resourcing portal to reduce bandwidth concerns in the company. The product gained 2k+ users in under 3 months and was used by 20+ teams in that span. I wrote 25 RESTful API endpoints, set-up the CI/CD pipeline using Jenkins, Docker and Red Hat OpenShift Container and designed the MySQL database schema
- Used monitoring tools like Kibana, Appdynamics and Wily to analyse 80 production incidents and provided fix where applicable
- Maintained a code coverage of 90% and above for all APIs using Junit and Mockito testing frameworks

WiseAtWork (formerly RetiredNotOut)   Hong Kong (Remote)
Product & Technology Specialist Intern   *Aug 2017 - Nov 2017*
- Added new features to a job portal web application like responsive web pages, third party login, hotkeys and internationalization

3 Minds Digital   Mumbai, IN
Web Development Intern   *May 2017 - July 2017*
- Enhanced security in a client's web application by implementing salt and hash technique to store sensitive data in MySQL
- Fixed 45 open defects in an existing application and developed new features like sending out mail notifications and OTP based login

Projects

Daily Song Recommendation System   *Apr 2021 - May 2021*
GitHub
- Used Spotify's Web API to create a recommendation engine based on cosine similarity between user's recently played tracks and Spotify's exhaustive song collection to get daily song recommendations via e-mail
- Containerized the app using Docker and used Django with crontab to automatically trigger the service every day

SOAP Web Service to REST API migration   *Jul 2020 - Aug 2020*
Barclays
- Automated the migration of SOAP Web Services to REST APIs by parsing XML-based WSDL files and translating it to a meaningful REST API design document along with a skeleton Spring Boot starter project with API endpoints
- Award winning solution at the Barclays India Hackathon 2020

Subjective Answer Evaluation [Paper Link]   *Aug 2017 - Apr 2018*
Natural Language Processing | Bachelor's Thesis
- Developed Subjective Answer Evaluation system using Django as the web application framework and NLP techniques to evaluate students' answers
- Used a combination of Latent Semantic Analysis and Information Gain with custom modifications which improved accuracy by 10% over native algorithms.