

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, JPA, Hibernate, Rest APIs, Micro services, SQL, Git

Other: Python, Django, Red Hat OpenShift Container Platform, Docker, Kubernetes, Jenkins, Apache Kafka, Linux, ELK stack, RAML, JUnit, 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
- 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 Barclays' internal PaaS and designed the MySQL database schema
- Migrated an excel based customer journey evaluation process to a web application using micro service architecture which reduced cost by 5.8 UK FTEs
- Used Red Hat OpenShift Container Platform to on-board 20+ APIs and manage containers. Frequently deployed APIs to production environment and performed troubleshooting of containers as required
- Used monitoring tools like Kibana, Appdynamics and Wily to analyse 80+ production incidents and provided fix where applicable

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 Database
- Fixed 45 open defects in an existing application and developed new features like sending out email notifications and MFA

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 and NLP techniques to evaluate students' answers to subjective questions
- Used a combination of Latent Semantic Analysis and Information Gain with custom modifications which improved accuracy by 10% over native algorithms.