

# Aakash Mishra

(831)266-5617 | aakash21696@gmail.com | linkedin.com/in/mishra-aakash/ | github.com/aakash-mishra

## 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
- Conceptualized and implemented an internal resourcing portal to reduce bandwidth concerns in the bank. The product gained 2k+ users in under 3 months and was used by 20+ teams in that span. I set-up the CI/CD pipeline using Jenkins, Docker and Barclays' internal PaaS, wrote 25 API endpoints and designed the database schema
- Migrated an excel based customer journey evaluation process to a web application using microservice architecture which reduced cost by 5.8 UK FTEs
- Used Red Hat OpenShift Container Platform(v3) 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
- Fixed 45 open defects in an existing application and developed new features like sending out email notifications and OTP based login

## Projects

### Daily Song Recommendation System

Apr 2021 - May 2021

*GitHub Link*

- 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 WSDL files and translating it to a meaningful REST API design document along with a skeleton 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.