

# ARNAV MAHAPATRA

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*MS graduate with over 3 years of experience as a Full-Stack Engineer, specializing in Object Oriented Programming using Java with Spring Boot and REST API backends, complemented by expertise in ReactJS and Angular frontends. AWS Certified Cloud Practitioner with a proven ability to deliver scalable cloud-based applications.*

## **EDUCATION**

### **Master's in Engineering Science | August 2022 – January 2024**

*University at Buffalo, The State University of New York, United States of America*

### **Bachelor of Engineering in Computer Engineering | August 2015 – July 2019**

*Don Bosco Institute of Technology, Mumbai University, India*

## **PROFESSIONAL EXPERIENCE**

### **Data Scientist Intern | May 2023 – August 2023**

*AI Camp Incorporated, Palo Alto, California, United States of America*

- Scraped 100,000+ faculty contacts from over 2,000 high schools across the US utilizing Beautiful Soup, Selenium, and LLMs, boosting company data capabilities and earning a cash prize for project success.
- Leveraged prompt engineering techniques in OpenAI GPT-3.5 Turbo model at \$0.0003/contact, integrating Pinecone as a data source for a chatbot with querying capabilities powered by LLM.

### **Java Full-Stack Engineer | July 2019 – May 2022**

*NSEIT Limited, Mumbai, Maharashtra, India*

- Mastered back-end development in Java, leveraging Spring Boot framework and REST API to construct robust web applications tailored for online examinations, resulting in a 20% increase in system performance.
- Designed intuitive, lightweight single-page applications utilizing ReactJS and Angular frameworks with HTML, CSS, JavaScript, and TypeScript, driving a 15% increase in user satisfaction.
- Leveraged Python libraries and frameworks focusing on automation, data analysis, and system integration, leading to a 17% increase in efficiency across development processes.
- Acquired SQL expertise by managing large databases on PostgreSQL, optimizing CRUD operations and queries, culminating in a 22% improvement in database performance.
- Designed and deployed a robust CI/CD pipeline on AWS infrastructure, incorporating Jenkins, Ansible, and Docker, achieving over 40% reduction in deployment time.

## **TECHNICAL SKILLS**

- **Languages** – Java, Python, SQL, R. | **UI** - HTML, CSS, JavaScript, TypeScript.
- **Libraries & Frameworks** – Spring Boot, REST API, Microservices, ReactJS, Angular, Node.js, Express.js, Flask, Spring Security, Apache Kafka, PostgreSQL, Oracle SQL Developer, MongoDB, Hibernate, JPA, JDBC, Elasticsearch, LLMs, JSP, JSTL, jQuery, Selenium, JUnit, CI/CD on AWS, Jenkins, Ansible, GitHub Actions, Kubernetes, Docker.
- **Other** – MS Office, Visual Studio Code, IntelliJ IDEA, Eclipse, NetBeans, Maven, Git, GitHub, SVN, Hugging Face, Tomcat, JBoss, JIRA, OS (Windows, Linux), Cloud (AWS, GCP).

## **PROJECTS**

### **Remote Proctored Exams | April 2022**

- Architected a Remote Proctoring System on the Spring Boot and ReactJS frameworks, enabling highly-scalable, reliable and secure online examinations for over 600,000 candidates all over India.

### **Post-Exam MIS | January 2020**

- Achieved over 20% reduction in operational costs through strategic consolidation of post-exam data, simplifying data retrieval and enhancing overall operational efficiency for clients.

## **RESEARCH EXPERIENCE**

### **Human Heart Disease Prediction Using Data Mining Techniques | December 2019**

*IEEE International Conference on Advances in Computing, Communication and Control (ICAC3 19), Mumbai, India*

- Spearheaded a research initiative by building a Flask-based web application in Python employing 13 ECG-derived attributes to predict the likelihood of heart disease.