

# ARNAV MAHAPATRA

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*MS graduate with over 3 years of experience as a Full-Stack Engineer, specializing in Java and Python with REST API for backend development, complemented by expertise in React 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.

### **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.
- Leveraged Python libraries and frameworks focusing on automation, data analysis, and system integration, leading to a 17% increase in efficiency across development processes.
- Designed intuitive, lightweight single-page applications utilizing ReactJS and Angular frameworks with HTML, CSS, JavaScript, and TypeScript, driving a 15% increase in user satisfaction.
- 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, FastAPI, Flask, Django, REST API, Microservices, React, Angular, Node.js, Express.js, LLMs, Apache Kafka, PostgreSQL, Oracle SQL Developer, MongoDB, Hibernate, JPA, JDBC, Elasticsearch, JSP, JSTL, jQuery, Selenium, Redis, 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 React frameworks, enabling highly-scalable, reliable and secure online examinations for over 600,000 candidates all over India.

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

- Developed a Post-Exam MIS portal using FastAPI and Angular, consolidating access to all candidate reports and cutting operational costs by over 20%.

## **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.