

Ayush Jain

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EDUCATION AND TRAINING

Master of Computer Science: North Carolina State University - Raleigh, NC

Anticipated in Dec 2020

Courses: Software Engineering, Object Oriented Design, Natural Language Processing, Neural Networks, Artificial Intelligence, Algorithms for Data guided Business Intelligence, Algorithms, Database Management Systems

Bachelor of Engineering: Jabalpur Engineering College - Jabalpur, India

Graduated in 2016

Courses: Data structure and algorithms, management information system, Operating systems, Machine Learning.

TECHNICAL SKILLS

Languages/Frameworks: Python, Ruby, JavaScript, Node.js, React.js, Angular, Oracle JET, HTML, CSS, Flask, Ruby on Rails

Product Competencies: Jenkins, Docker, Azure, Amazon Web Services (ECR, ECS, S3), Oracle Cloud, Kore.ai, Dialog Flow (Google), Wit.ai.

Database: Oracle Autonomous Database Cloud (12c), MySQL PostgreSQL, MongoDB

Certifications: Oracle Certified Specialist, **Mobile Cloud** Service 2016 Developer, Oracle MOOC: **Chatbots** with Oracle Intelligent Bots, Oracle **JavaScript** Extension Toolkit (JET) 4.0, **NodeJS Using Oracle Cloud**

WORK EXPERIENCE

Software Engineer Intern / LexisNexis - Raleigh, NC

May 2020 – Aug 2020

- Implementation of CI/CD pipelines to automate the build, testing and deployment process using Jenkins, **Azure** DevOps and Amazon Web Services (**AWS**).
- Integrated a Contract Testing framework to establish automated testing between API endpoints and consumer, using **Docker** images, which could be used irrespective of the programming language.

Graduate Research Assistant / NC State University (Artificial Intelligence Lab) - Raleigh, NC

Sep 2019 – Current

- Led a team of 3 developers to implement an Intelligent Probability Tutor Application using **ReactJS** and microservices using **Node.js**.
- Pedagogical policy implementation in Python and exposed the APIs of the machine learning model.
- Collected and analyzed the data of subscribed students for research purposes to enhance the application's intelligence.

Associate Consultant / ORACLE Consulting Solution Center - Bangalore, IN

Feb 2017 – Aug 2019

- Collaborated closely with Product, Design and Engineering teams to build new features for various Oracle cloud products.
- Worked as a full stack developer to build mobile apps, web apps and chatbots in an agile environment using open source technologies along with various Oracle cloud products.
- Worked at the client location in **Dubai, UAE** to implement their first Artificial Intelligence conversation agent.
- Provided training and supervision to around 15 member staff for conversation agents (chatbots) and JavaScript frameworks.

PROJECTS

Artificial Intelligence Chatbot

- Integration with multiple channels like **WhatsApp**, **SMS**, Web, Facebook using webhooks by developing extensions in NodeJS.
- Developed rest APIs in Node.js with **Oracle DB** to get data from machine learning batch process.
- Development of a component for conversation client for web and JavaScript based mobile app which includes voice recognition.

Employee Engagement – Chatbot, Mobile (Android and IOS) and Web App

- Created a component to update the code **remotely** which doesn't require new app build for new features and changes.
- SSO Integration with **Microsoft AD** and Oracle Mobile Hub by modifying the MSAL library to support hybrid mobile apps.
- Played the role of lead in the absence of team members to plan, assign and deliver. Received project **innovation award**.

Sentiment Analysis Using Stanford Core NLP

- Processing live data streams of tweets from twitter APIs using **Apache Spark**, **Kafka** and **Python**.
- Sentiment analysis on the tweet streams using Natural Language Processing.
- Displaying the polarity of sentiments of tweets in graphs, bar and pie charts.

EXTRACURRICULAR

Winner of Rise to Code LexisNexis Annual Hackathon among 25 participating teams in Research Triangle Area, NC.

Oct 2019