

# Ayush Jain

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## EDUCATION AND TRAINING

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### 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

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**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

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### 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

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### 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

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

*Oct 2019*