

Ayush Jain

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EDUCATION

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

Anticipated in May 2021

Relevant Courses: Software Engineering, Object-Oriented Design, Natural Language Processing, Neural Networks, Artificial Intelligence, Algorithms for Data guided Business Intelligence, Algorithms, Software Security

Bachelor of Engineering: Jabalpur Engineering College, Jabalpur, India

Graduated in May 2016

Relevant Courses: Data Structure and Algorithms, Management Information System, Operating Systems, Machine Learning, Database

TECHNICAL SKILLS

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

Product Competencies: Jenkins, Docker, Kubernetes, Swagger, Kore.ai, Dialog Flow (Google), Wit.ai (Facebook).

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

Public Cloud: Amazon Web Services (ECR, ECS, S3), Microsoft Azure (Bot Service, NLU), Oracle Cloud (ODA, CECS, ICS, Mobile Hub)

Certifications: Chatbots with Oracle Intelligent Bots, Oracle **JavaScript** Extension Toolkit (JET) 4.0, Node.js Using Oracle Cloud

WORK EXPERIENCE

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

Sep 2019 – Current

- Led a team of three developers to implement an Intelligent 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.

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).
- Automated testing between API endpoints and consumer with Contract Testing framework using **Docker** images, which could be used irrespective of the programming language.

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.
- Built reusable assets for consulting for integration of Oracle Cloud products which can be used for multiple clients to reduce man days and cost to customer up to **70%**.
- 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, IVR**, using Twilio using webhooks by developing extensions in NodeJS.
- Implemented rest APIs in Node.js with Oracle DB to get data from machine learning batch process.
- Developed 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 with **Apache Spark, Kafka** and **Python**.
- Sentiment analysis on the tweet streams with Natural Language Processing and TensorFlow Universal Sentence Encoder.
- Displayed the polarity of sentiments of tweets in graphs, bar and pie charts.

HACKATHONS

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

MongoDB Winner of Hacknc organized by University of Chapel Hill, NC which included participants from over 50 Universities.