Arjun Chavan

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EDUCATION

Johns Hopkins University, Whiting School of Engineering, Baltimore, MD — Expected May 2025
Master of Science in Engineering, Computer Science Courses - Artificial Intelligence, Neural Networks

Great Learning with Great Lakes University, Online — Dec 2022
Post Graduate Program in Data Science Modules - NPV, EDA, Statistics for ML, Supervised ML, NLP

Mumbai University, Don Bosco Institute of Technology, Mumbai, India — Jul 2021
Bachelor of Engineering (Computer Engineering) Courses - DSA, Big Data & Analytics, Machine Learning

WORK EXPERIENCE

Cimpress, Mumbai, India**, DevOps Engineer** — Aug 2021 - Jul 2023

DevOps Engineering

- Managed 75% of the AWS backbone architecture like SQN, SNS, Codebuilds, Codepipelines and EKS clusters.
- Supervised projects and brainstormed new ideas making implementation of task more efficient by at least 50%.
- Automated CI/CD (Continuous Integration / Continuous Deployment) pipelines making them 100% secure.
- Managed key performance indicators (KPIs) with the aim of enhancing website performance.
- Mentored 4 new team members through knowledge-transfer sessions and guided through company frameworks.

Frontend and Backend Engineering

- Dealt with React.js and Node.js application development, validation and performed unit testing in Mocha and Jest.
- Collaborated closely with developers from 6 squads and handled software development, deployment, and version control.
- Improved code quality using SonarCloud and generated project documentation for 80% of major projects.
- Completed 100% of assigned projects and tickets and played a pivotal role in a company-wide migration initiative.

Dial4242 Uber for Ambulances. Mumbai, India **Software Intern** — Jun 2019 – Oct 2019

- Used Google Assistant to request an ambulance from the Dial4242 dashboard, enhancing client accessibility by 75%.
- Collaborated with Actions on Google to gain insights into the functionality of Google Assistant.
- Integrated 60% of the company's API microservices and established a connection with the Firebase database.

PROJECTS

Undergraduate Projects

- **Simulators -** Quine McClusky Method (C), Breadboard (JFrame) and Expression Converter (JavaFX).
- **Android Development -** Designed multiple mobile applications on Android Studio using Java and Kotlin.
- **Little Go Player -** Deployed an AI Bot to play Little Go Puzzle using Alpha-Beta Pruning giving 80%-win rate.
- **Robotics, Industrial Automation & IOT Course –** Created a robot to play football; Used ESP8266 for IOT multiple projects.
- **Predicting Covid-19 Cases -** Used Machine Learning by training an LSTM model and connected it with Front-end using Flask and HTML. Achieved 85% precision rate in predicting number of positive COVID-19 cases in India, Germany, Italy, Spain.

Drone Route Planning – ISRO *(Smart India Hackathon)*

- Engineered an innovative algorithm to plan 70% more efficient drone route which empowered drones to make real-time adjustments considering multiple constraints like geography, drone battery, fuel stations, and obstacles.
- Drove interactive visualizations by creating simulations and animations using AngularJS, HTML, CSS, and Google Maps API to picture planned routes and enhance user experience (Link).

PEGASUS

- Led Software Subsystems in Can-Sat Competition organized by American Astronautical Society (AAS).
- Designed circuitry and programmed micro-controllers to operate sensors and trigger flight modules.

Hewlett Packard Enterprise Software Engineering Job Simulation on Forage

- Wrote a proposal for a RESTful web service to manage a list of employees.
- Built a web server application in Java Spring Boot that accepts, responds to HTTP requests and supports uploading JSON data.
- Developed and ran a set of unit tests to assess my Java Spring Boot application's performance.

SKILLS

Softwares	Microsoft Word and Excel, Adobe Photoshop, Macromedia Flash, Android Studio
Platforms	AWS, SonarQube, BitBucket, GitHub, Atlassian, Jira, Linux/Unix, CUDA
Management	Agile (Scrum, Kanban), Sprint Planning, Continuous Improvement, Iterative Development
Tools and Frameworks	Hadoop, SonarQube, Kubernetes, Docker (Containerization), Terraform, Spring Boot
Databases	MySQL, DynamoDb, Firebase, MongoDb
Languages	C, C++, Java, Kotlin, VB, HTML, CSS, JavaScript, PHP, Python, Node JS, R, iOS Swift
Data Science Tools	Excel, Tableau, NumPy, Pandas, Matplotlib, Seaborn, PyCaret, PyTorch, TensorFlow