

# ARUNA MURUGESAN

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## SKILLS

- **Programming Language:** JavaScript (ES6+), TypeScript, Python, Java, SQL, C/C++
- **Web Development:** HTML5, CSS, Tailwind CSS, React, Redux, Material UI, Node JS, Express JS, REST API, CI/CD, Scrum, JIRA, Jenkins, jQuery, Bootstrap, Webpack, Spring MVC, GraphQL, Babel, Postman, Grafana
- **Development Tools:** Visual Studio Code, Chrome Developer Tools, Azure Data Studio, Jupyter, Docker, Kubernetes, Git
- **Database/Cloud:** Amazon Web Services, Azure Data Factory, Azure Databricks, Microsoft SQL Server, MySQL, PostgreSQL
- **Machine Learning/Data Analysis:** Python- SciKit Learn, Seaborn, TensorFlow, Pandas, NumPy, Matplotlib, Tableau, Excel
- **Operating Systems:** Windows, MacOS, Linux

## WORK EXPERIENCE

### Software Engineer

Aug'23- Present

V3 Tech Solutions, McKinney, Texas

- Involved in the analysis, design, and development phases of our client's compliance dashboard using Agile development methodology to deliver regular updates to the business team and project manager.
- Built a responsive ReactJS front-end connecting to Node.js/Express.js back-end servers. Developed server-based applications, implemented efficient routing, and created RESTful APIs for integration.
- Utilized Gitlab CI/CD for efficient release cycles with minimum downtime and managed source code repositories using Git.
- Involved in migration of our web application from on-premises to AWS, boosting scalability and optimized performance.
- Efficiently managed and tracked project workflows using JIRA and monitored application health and logs using Grafana.

### Software Engineer Intern

Jul'20- May'21

Kaashiv Info Tech, Chennai, India

- Contributed to the development of responsive and cross-browser-compatible, e-commerce web page using ReactJS.
- Engaged in JavaScript DOM manipulation, the object model, asynchronous programming and promise.
- Maintained up-to-date documentation, including code documentation, API documentation, and deployment environment.
- Utilized project management tools like Agile, Scrum, and JIRA and was able to troubleshoot problems on various projects.
- Collaborated with my team to implement new features and reduced page load time by 15%.

### Data Analyst Intern

Aug'19- Mar'20

UNIQ Technologies, Chennai, India

- Conducted exploratory data analysis on large datasets, identifying trends and patterns to support decision-making.
- Utilized statistical techniques to identify outliers and anomalies in datasets, improving data quality.
- Performed data visualization using Tableau, based on the analytical needs of the organization and our participants.

## PROJECTS

### AI Summarizer Application | React, Tailwind CSS, Redux, Git, REST APIs

Feb'23

- Developed an AI App using React, which effortlessly integrated APIs for streamlined text summarization on the front-end.
- Implemented dynamic API calls upon user initiation, ensuring real-time and efficient text summarization.

### Election System | React, Material UI, Redux, Git

Jan'23

- A web-based election system, incorporating Single Page Application for seamless user experience.
- Employed asynchronous programming for efficient data retrieval and updating, enhancing the system's responsiveness.

### Credit Card Fraud Detection | Python, Pandas, NumPy, Matplotlib, Seaborn

Dec'22

- Designed and implemented a Credit Card Fraud Detection system utilizing machine learning classifiers, such as Logistic Regression, Naïve Bayes, K Nearest Neighbors and SVM.
- Achieved a notable accuracy rate of 94% on real-world data, with the KNN algorithm as the top-performing model.

### Breast Cancer Prediction | Python, Pandas, NumPy, Matplotlib, Seaborn

Oct'22

- Created a machine learning model for early breast cancer detection using diverse dataset with clinical & genomic features.
- I utilized Random Forest, Decision Tree, and Logistic Regression, achieving a 96% accuracy and 95% cross-validation score in Random Forest.

## EDUCATION

### Master of Science in Computer Science (GPA: 3.7/4.0)

May'23

Wichita State University, Kansas

### Bachelor of Technology in Information Technology

May'21

Anna University, Chennai, India

## CERTIFICATIONS

- AWS Certified Cloud Practitioner.
- Meta Front-End Developer Certification.
- Completed Machine Learning Specialization by Stanford University.