

# ARUNA MURUGESAN

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## WORK EXPERIENCE

### Software Engineer

Aug'23- Present

V3 Tech Solutions, McKinney, Texas

- Built a responsive ReactJS front-end with HTML, CSS and JavaScript connected to a Node.js/Express.js back-end with REST APIs.
- Led the design and development of a compliance dashboard, resulting in a 30% increase in reporting efficiency.
- Optimized release cycles using Gitlab CI/CD, reducing downtime by 15%, and managed source code repositories with Git.
- Migrated our web application from on-premises to AWS, boosting scalability and performance.
- Managed and tracked project workflows with JIRA using agile methodology and monitored application health and logs using Grafana.

### Software Developer Intern

Apr'24- Aug'24

Porter Lee Corporation, Schaumburg, Illinois

- Enhanced Porter Lee's Evidence Management System with REST APIs using the Delphi Framework.
- Improved data security with JWT-based authentication and authorization protocols.
- Increased system performance by 20% through SQL query optimization and caching.
- Involved in the development of android mobile application in Java and .NET, boosting data efficiency by 30%.
- Facilitated seamless integration and understanding for developers by creating detailed API documentation using Swagger.

### Software Developer Intern

Jul'20- May'21

Kaashiv InfoTech, Chennai, Tamil Nadu

- Contributed to a responsive, cross-browser-compatible, e-commerce web page using ReactJS.
- Maintained comprehensive documentation, including code, API documentation, and deployment environment.
- Optimized the application state management, resulting in a 20% increase in overall performance and user satisfaction.
- Utilized project management tools like Agile, Scrum, and JIRA and was able to troubleshoot problems on various projects.
- Collaborated with the team to implement new features, reducing page load time by 15%.

### Data Analyst Intern

Aug'19-Feb'20

UNIQ Technologies, Chennai, Tamil Nadu

- Conducted exploratory data analysis on large datasets, identifying trends and patterns to support business decision-making.
- Identified outliers and anomalies using statistical techniques, improving data quality.
- Created dashboards with Tableau, streamlined data presentation, and provided actionable insights.
- Performed data visualization based on the analytical needs of the organization and participants.

## PROJECTS

### Airbnb Clone | React, Tailwind CSS, Express.js, MongoDB

May'24

- Built a full-stack application with user authentication, booking, and real-time filtering.

### E-Commerce Web Application | React, Next JS, Tailwind CSS, MongoDB

Jan'24

- Developed a secure, high-performance full-stack e-commerce application.

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

Feb'23

- Created an AI Application for streamlined text summarization with API integration.

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

Jan'23

- Developed a responsive Single-Page Application for election system, enhancing user experience and data retrieval.

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

Dec'22

- Implemented a Fraud Detection model with KNN yielding 94% accuracy.

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

Oct'22

- A breast cancer prediction model, achieving 96% accuracy and 95% cross-validation score with Random Forest.

## SKILLS

- Programming Language:** C/C++, C#, Java, Python, JavaScript (ES6+), TypeScript, SQL
- Web Development:** HTML, CSS, Tailwind CSS, React, Redux, Node JS, Express JS, Delphi, REST API, CI/CD, Grafana
- Development Tools:** Visual Studio Code, Chrome Developer Tools, Azure Data Studio, Jupyter, Docker, Kubernetes, Git
- Database/Cloud:** AWS, GCP, SQL Server, MongoDB, PostgreSQL
- Machine Learning/Data Analysis:** Python- SciKit Learn, Seaborn, Pandas, NumPy, Matplotlib, Tableau, Excel
- Operating Systems:** Windows, MacOS, Linux

## EDUCATION

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

May'23

Wichita State University, Wichita, Kansas

### Bachelor of Technology in Information Technology

May'21

Anna University, Chennai, India

## CERTIFICATIONS

- AWS Certified Cloud Practitioner
- HackerRank Advanced SQL Certification
- Meta Front-end Developer Certification
- Machine Learning Specialization by Stanford University