

AKASH ARUMUGAM VENKATACHALAPATHY

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EDUCATION

Northeastern University | Boston, MA

Expected May 2025

Master of Science in Software Engineering Systems | GPA: 3.76

Anna University | Chennai, India

May 2021

Bachelor of Engineering in Electrical and Electronics Engineering | GPA: 8.24

TECHNICAL SKILLS

Backend Technologies: Python, Java, Node.js, Spring Core, Spring MVC, Hibernate, Maven, Spring Boot, REST, AJAX

Frontend Technologies : HTML5, CSS, SASS/SCSS, JavaScript, TypeScript, React, Redux

Database: MongoDB ,PostgreSQL ,MySQL

Methodologies/Practices: Agile, Software Development Lifecycle, Git

Certification: OCI Certified Generative AI Professional

EXPERIENCE

LTIMindtree (formerly Larsen & Toubro Infotech) | Chennai, India

August 2021 – August 2023

Senior Security Engineer

- Conducted source code analysis using static application security testing tools such as Veracode to identify and mitigate security vulnerabilities
- Reviewed and prioritized identified vulnerabilities based on severity, resulting in a 60% reduction in critical vulnerabilities and 70% reduction in severe vulnerabilities
- Performed information system security vulnerability scanning across networks, operating systems, applications, and databases, highlighting expertise in risk characterization and mitigation on Windows and Linux platforms, reducing overall system vulnerabilities by 75%
- Led client calls to update on vulnerability mitigation progress, showcasing excellent communication skills and project management capabilities
- Developed risk-based mitigation strategies for networks, operating systems, and applications, aiding in the remediation of 800k backlog vulnerabilities and contributing to an increase in organizational security enhancements.
- Recognized as Star Performer of the Year 2022 for instrumental contributions in mitigating 90% of backlog vulnerabilities, demonstrating exceptional commitment to security and collaboration with cross-functional teams

ACADEMIC PROJECTS

EquipShare, Northeastern University | Spring Boot, Hibernate [Github](#)

Apr 2024

- Developed EquipShare, a Web 2.0 IT hardware lending application, featuring an Administrator Console for inventory management, a User Portal for request tracking, and a notification system for streamlined user communication
- Engineered a robust backend using Spring Boot and Hibernate, ensuring smooth operation and seamless database interaction, while implementing OAuth for secure and reliable email notifications
- Utilized Thymeleaf and CSS to create a dynamic and responsive frontend, adhering to MVC architecture and DAO pattern for a structured development approach, facilitating future enhancements and maintenance

Health360, Northeastern University | ReactJS, NodeJS, REST API, MongoDB [Github](#)

Dec 2023

- Developed a fitness tracking web application using the MERN stack (MongoDB, Express.js, React.js, Node.js) with features for tracking food and exercises, enhancing user experience through an intuitive UI and easy navigation
- Integrated Nutritionix API for accurate food and exercise tracking, enabling personalized diet plans and comprehensive workout tracking within the application
- Implemented RESTful APIs for all CRUD operations, establishing a robust foundation for community engagement and seamless functionality of the application

Vimaan Airlines, Northeastern University | Java, MySQL [Github](#)

Dec 2023

- Implemented a Java Swing GUI application for managing domestic and international flight schedules, bookings, and passenger details, enhancing user interaction and operational efficiency
- Applied OOP and SOLID design principles, incorporating advanced software concepts like Lazy, Eager, and Enum Singleton factory patterns for robust and maintainable code architecture
- Optimized functionality and performance using Stream API, Lambdas, CSV file handling, and Multi-threading techniques, ensuring efficient data processing and improved user experience