BHUVANESWARI GNANASEKAR

Software Engineer

📞 (540) 449-7699   ✉ bhuvaneswarig@vt.edu   Bhuvaneswari-Git   in Bhuvaneswari-G
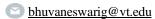
SKILLS

✓ **Programming Language**
- Proficient in Java, Python, C++ for developing software applications
- Familiarity with object-oriented programming principles and design patterns , Experience in building RESTful web services using Java frameworks like Spring Boot
- Experience in connecting Java applications to databases using JDBC, performing CRUD operations, and handling transactions
- Strong understanding of web development concepts including Servlets and JSP, and basic front-end technologies like JavaScript, HTML, CSS
- Expertise in web development frameworks including React.js and Spring with a strong understanding of front-end and back-end development principles

✓ **SQL Database**
- Skilled in database technologies including SQL Server and MySQL, with the ability to design and optimize database schemas and write complex SQL queries

✓ **UI**
- Proficient in writing clean and semantic HTML code, creating the structure and content of web pages
- Strong understanding of CSS styling, including selectors, box model, layout techniques, and responsive design principles
- Knowledge in developing web applications using the ReactJS framework, including components, services, routing, and reactive forms
- Proficiency in Node.js for project setup and development, utilizing npm and Express.js
- Knowledge of Material UI, a UI component library for ReactJS and NodeJS, for creating consistent and visually appealing user interfaces Experienced in

✓ **ML and data science frameworks**
- Familiarity with AI/machine learning frameworks such as TensorFlow and PyTorch, with experience in developing and deploying machine learning models for various applications

TOOLS

- AWS
- Selenium, JUnit
- C-Make
- Spring Framework
- Git, Bitbucket
- Azure devops
- React JS
- Docker
- SQL server, MySQL

PROFESSIONAL EXPERIENCE

✓ **One Community Global**   Mar 2024 – Present
Software Engineer
- Involved in solutions development within the HRMS domain, primarily focusing on the Employee Management module and PR Review.
- Utilized React.js for front-end development to ensure an intuitive user interface and seamless user experience.
- Involved in implementation of backend functionalities using JavaScript and Node.js to ensure robustness and scalability of the applications.

✓ **Halliburton**   Jan 2024 – Present
QA Automation Engineer
- Involved in cross-functional requirements gathering, actively shaping system design discussions.
- Established robust testing environment for unit, API, and integration testing, showcasing proficiency in Databricks and implementing MQTT broker for real-time data communication.
- Created a simulation app for testing the application by simulating the field environment.
- Collect, analyze and transform data and report the findings to the team.

✓ **Aity**   Sep 2023 – Dec 2023
Software Engineer
- Contributed to web-based application development with ChatGPT and ML, gaining exposure to algorithm and data structure design.
- Participated in testing processes (unit, API, UI), showcasing proficiency in software testing methods.
- Collaborated effectively in a team-oriented development environment and demonstrated independent work skills.
- Applied JavaScript extensively for frontend development, implementing diverse styling approaches, and contributed to backend development using Java to enhance overall application functionality.

✓ **Space Monkey**   Jan 2020 - Jun 2020
Software Engineer Trainee – Testing, Development & Support (Ticketing/Attendance/Payroll Domain)
- Developed an automatic attendance detection system portal that improved attendance and payroll by taking an image as input.
- Involved in designing, analyzing requirements and testing the application for UI, API and integration testing.
- Managed to build release and deploy the application based on requirement

EDUCATION

✓ MEng in Computer Engineering | 3.62 GPA   Aug 2021 - Dec 2022
Virginia Tech · VA · USA

✓ B.E in Computer Science & Engineering   Aug 2016– May 2020
Anna University · Guindy · India
Relevant Coursework: Software Testing, Data Structures and Algorithms, Software Engineering, Object Oriented Programming, Operating Systems, Database Management Systems, Application of Machine learning, Data analytics, NLP

PROJECTS

✓ **Voice Activated Cloud-based Drone Assistant**
- Developed a cloud-based completely voice-activated home automation drone that requires a virtual assistant to pass commands
- Built it to be cloud-native and highly scalable, ensured components are all containerized and can be scaled based on demands
- Utilized Alexa skills kit to develop voice commands and amazon web-services to process the real time request and video input.

CERTIFICATES

- Learning Java, LinkedIn
- Python Data structures, Coursera
- Software Testing Training, Credo Systems
- Web Scraping with Python, LinkedIn
- MySQL essential training, LinkedIn
- Neural Networks, Coursera