VINAYDEEP KAUR

Master in Computer Science, 4 years of Software Engineering

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TECHNICAL SKILLS

- Programming knowledge in Java, Python, JavaScript, HTML, CSS, MySOL, Postgres, MongoDB
- Tools: AWS, Jenkins, CI/CD, Github
- Technologies: Data analysis, Feature engineering, TensorFlow, Neural Networks, Data visualization, Machine learning, artificial intelligence

EDUCATION

Masters in Computer Science – 90.7% Lakehead University, Thunder Bay, Graduated: Sep 2021- Aug 2023

Ontario

Bachelors in Information Science and Nitte Meenakshi Institute of Technology, Graduated: Aug 2013-May 2017

Technology - 83.2% Bangalore, India

WORK EXPERIENCE

QA Automation Engineer (Full time) – Java, Selenium

Ribbon Communications, Bangalore, India

July 2017 to July 2021

Projects: EMS - Element Management System, LI - Lawful Intercept, MRFP - Multimedia Resource Functional Processor

- Collaborated with cross-functional teams to understand project requirements and design effective test strategies.
- Developed and executed automated regression test cases using Selenium WebDriver and Java, resulting in a 90% reduction in testing time from 1 week to 8hr.
- Created detailed Test Plans and Test Cases, ensuring comprehensive coverage of software functionalities.
- Implemented Page Object Model with Page Factory in Selenium, enhancing test maintenance and reducing code duplication.
- Conducted Smoke testing, Sanity testing, Functional testing, Integration testing, and Regression testing, identifying critical issues and ensuring software quality.
- Utilized SOAPUI and RESTful web services for functional testing, identifying, and reporting defects in a timely manner.
- Integrated automated tests into Jenkins CI/CD pipelines, facilitating efficient and consistent software delivery.
- Implemented Log4j for enhanced logging and monitoring during testing, leading to improved issue tracking and analysis.
- Engaged with developers to expedite defect resolution by reproducing, analyzing, and prioritizing reported issues. Also, actively
 contributed insights into software quality and process enhancements during Agile ceremonies.

Full Stack Developer (Internship) – JavaScript, NodeJS, MongoDB

Ulphi Technologies, Bangalore, India

June 2016 to Sept 2016

- Developed dynamic single-page responsive web applications using JavaScript, MeteorJS, NodeJS, MongoDB, HTML, CSS, and Bootstrap.
- Implemented template rendering techniques to create seamless user experiences, optimizing performance across various devices.
- Utilized iron router for efficient template routing, effectively integrating menu bars, banners, and articles into the application.
- Integrated MongoDB to store and manage contact information and user queries, ensuring **reliable data storage and retrieval**.
- Conducted thorough unit testing for each module, consistently meeting performance benchmarks and delivering high-quality code.
- Contributed to cross-functional requirement gathering and technical insights while enhancing code quality through reviews and
 proactive troubleshooting for optimized application performance.

PROJECTS

RESEARCH PROJECTS

Privacy-preserving EEG emotion recognition using multi-loss deep learning architectures

Lakehead University, Ontario

Jan 2023 - Aug 2023

- Worked on striking a balance between maximizing the information gained from EEG applications, including emotion detection and mental state analysis, and minimizing the risk of disclosing a user's identity or sensitive information that may be inadvertently disclosed through EEG signals.
- Constructed a hybrid deep learning CNN model featuring adversarial learning, fine-tuning weights to boost task classification

accuracy while decreasing user identification accuracy to preserve identity.

Crowd-sourcing based android application for structural health monitoring and data analytics of roads using cloud computing NMIT. India Jan 2016 – Feb 2017

 Developed an IoT crowdsourcing-centered Android application for identifying road damage and generating reports, employing Google Navigation API and Google Voice Interaction API.

- Implemented SQLite database on the mobile platform for caching and employed Firebase database for cloud storage.
- Won a national award for innovation

RECENT PROJECTS (10+)

SmartLectures (Individual project) — Python, AWS transcribe, Natural Language Processing techniques

Lakehead University, Ontario

Jan 2023 – Apr 2023

- Engineered an application streamlining student access to video content by enabling rapid search for topics and key phrases across a 40-lecture course.
- Utilized Amazon S3 buckets and AWS Transcribe to store and transcribe videos, preprocessing and normalizing text to extract keywords and phrases from transcriptions.
- Constructed a user-friendly dashboard, empowering users to effortlessly locate videos through keyword searches.

ASBESTOScope (Group project) —Python, Machine learning, Semi-supervised learning, SMOTE

Lakehead University, Ontario

Sep 2022 - Dec 2022

- Analyzed and evaluated the performance of supervised learning techniques to detect mesothelioma.
- Introduced an enhanced solution for the undersized and unlabeled mesothelioma dataset by applying SMOTE and semi-supervised learning strategies.

NetShield (Individual project) —Python, Machine learning, data analysis, feature engineering

Lakehead University, Ontario

Sep 2022 - Dec 2022

Developed a Machine Learning-driven approach for detecting vulnerable network configurations to enhance intrusion prevention.

MailDefender (Individual project) —Python, Machine Learning, HTML, CSS, Streamlit, Heroku

Lakehead University, Ontario

Apr 2022 – Aug 2022

Created a website with a spam email classifier that employs machine learning algorithms to discern whether an email is spam.

EXTRACURRICULAR ACTIVITIES AND ACCOMPLISHMENTS

- GSA Executive Award recipient for 2023 for an overall profile in academics and cocurricular, March 2023.
- Volunteering: Orientation event management volunteer, Fall 2022.
- Second runner-up in national technical project contest UNISYS Cloud 20/20 for Innovation, Feb 2017
- Active member of Google Developer Students Club.