

SAI LAYA MALLINENI

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OBJECTIVE

As a dedicated computer science master's student with a strong foundation in Java and Python, complemented by hands-on experience as a Unity and AI project developer in my current role as a research assistant, I am actively seeking software developer roles that leverage my expertise and align with my educational background. With one year of prior experience at DELL Technologies, I am eager to contribute my skills and knowledge to a professional setting, making a meaningful impact in the field of software development.

EDUCATION

- **Purdue University** Indiana
Masters in Computer Science; GPA: 3.72/4.00 May 2024
- **BVRIT HYDERABAD College of Engineering for Women** India
Bachelor of Information Technology; GPA: 8.13/10.00 - Top five in class of 60 Aug 2017 - July 2021

SKILLS SUMMARY

- **Programming and Scripting Languages:** Java, Python, C, C++, C#, R , JavaScript, PHP, HTML, CSS, Matlab
- **Technologies and Frameworks:** Angular JS, SpringBoot, JUnit, Numpy, Pandas, Flask, Matplotlib
- **Database and Development Tools:** MySQL, MongoDB, Android studio, Unity, Pycharm, Unity, Visual Studio, MS Office

EXPERIENCE

- **Center for Innovation through Visualisation and Simulation** PNW, USA
Part time- Research Assistant Jan 2023 - Current
 - **Hazard Recognition Simulator Builder:** Unity project that enables trainers to upload 360-degree videos and incorporate essential tasks, including questionnaires with feedback sections, information panels etc. This allows learners to immerse themselves in the environment, visualizing hazards, goals, and other relevant information without physically being present.
 - **Hazard Recognition using Artificial Intelligence:** An object detection model employing the YOLO algorithm. This is trained to operate in real-time video streams and identify both humans and restricted areas to evaluate potential danger situations by considering factors such as safety helmets and incorporates depth analysis between two bounding boxes.
- **DELL TECHNOLOGIES** Hyderabad, India
Full Stack Java Developer Jul 2021 - Jul 2022
 - **Inventory and Discrepancy Management:** Worked on upgrading the existing ERP software GLOVIA to PRISM, a fully-customizable order and inventory management solution that helps to connect sales, service, analytic, financial modules. It manages real-time data flows and operational reporting that requires 1-2 years of data retention, ensuring code coverage.
- **VirtuBate** Hyderabad, India
Internship- Backend Developer Jul 2020 - Oct 2020
 - **Innovate Incubate Incorporate:** A website for pre-incubation using MERN Stack where a technology-focused business idea or project can be implemented by incorporating with fellow members whose interest's match.

ACADEMIC PROJECTS

- **StandUp for Women Safety:** An android app that integrates security measures alerting family with SendGrid SMS notifications, tracking police station using LocationListener, saving evidences in the cloud using media stream recorder API.
- **SVES Placement Portal:** Automating the training and placement process using MERN stack and D3. This project automates the process of collecting information, notifying the students about the ongoing events (placement drive/internship/competitions) via email and SMS to access and tracking placement records by TPO, thus providing a better understanding of the performance of a student. Serving as the team lead helped me in delegating work to others.
- **GroCart, Next basket prediction:** A Machine Learning project to predict the next grocery cart using previous cart history. Using feature engineering to extract features from the raw dataset, and XG-Boost algorithm to scan hyperparameters and got accuracy of 97 percent. Flask website through which we can get the required prediction.
- **Embedded Merge and Split:** It assists users in analyzing extensive data sets by visually representing the data through a range of graphs. By employing intuitive actions like drag and drop, it enables users to easily generate patterns and correlations across different data ranges.

HONORS AND LEADERSHIP ROLES

4th position in Geek Div'a hackathon initiative by GGK tech for women safety project and participation in hackathons IncubateInd-Microsoft, Hexathon- Hexagon.

Scholarship in Grace Hopper celebration of India

Head of NSS BVRITH and Teaching experience in a government school under SAHAYA Organisation.

Active member of Dell Innovation club.