DIVIJA PADMA KANUMURY

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EDUCATION

Master of Computer Science, University of Florida, Gainesville, Florida   Aug 2022 - Expected May 2024
Relevant Coursework: Analysis of Algorithms, Advanced Data Structures, Machine Learning   3.55/4 GPA
Bachelor of Computer Science, Jawaharlal Nehru Technological University, Hyderabad, India   Jul 2017 - Jul 2021
    8.98/10 GPA

EXPERIENCE

Software Engineer Intern   Jun 2023 - Jul 2023
OSI Digital   *Hyderabad, India*
- Implemented a Flask-based REST API for document classification in ONEScan with 84% accuracy, serving 1200 customers.
- Integrated AWS S3 buckets to retrieve uploaded documents and applied advanced image processing and OCR technology to achieve a 96% precision rate for text recognition.
- Explored state-of-the-art open-source models (LayoutLM, Doc-Query, PICK), identified text associations, and contributed to a system automating invoice and sales order data extraction, potentially saving $600/month.

Software Engineer I   Aug 2021 - Aug 2022
Honeywell   *Hyderabad, India*
- Managed system change requests in the CorePT formatting module for navigational data across five builds, implementing them with SQL and PL/SQL.
- Teamed up with developers to analyze security risks, and conducted rigorous system and unit tests for ComPT, reducing end point security vulnerabilities by 15%.
- Led improvements in Stakeholders Request Board Automation and Request Form apps, saving 7 hours weekly.
- Mentored three interns in Spring MVC and core processing workflow.

Software Engineer Intern   Feb 2021 - Jul 2021
Honeywell   *Hyderabad, India*
- Designed "Stakeholders Request Board Automation," reducing processing time by 30% and enhancing resource allocation for the navigational data team.
- Integrated the tool into a Struts application, resulting in a 25% reduction in compatibility issues.
- Achieved 20-hour weekly productivity gains and developed a robust API for data retrieval from Rational ClearCase, improving application efficiency.

PROJECTS

Painting Generator Using Cycle GAN
- Developed Cycle GAN with TensorFlow to produce 7,000 to 10,000 Monet-style paintings, utilizing adversarial learning for generating paintings.
- Experimented with hyper-parameters, mitigated mode collapse, ensuring model stability, and achieved a 73.2 inception score.

Do Your Homework
- Collaborated on research project led by Dr. Patrick Traynor to assess reproducibility in top security conference papers, achieving 31% reproducibility for 47 papers.
- Built Python and MATLAB models for voice assistant security and behavioral authentication based on innovative research papers and analyzed brainwaves from 38 participants.

BookRec.
- Designed and implemented a book recommendation system with a 25% boost in personalized recommendations through item and user-based collaborative filtering.
- Employed NumPy, pandas, scikit-learn, and Streamlit libraries to develop the project, achieving an 82% recommendation accuracy.

SKILLS

Programming Languages:	Java, Python, C, C++
Web Technologies:	HTML, CSS, Bootstrap, JavaScript, jQuery, AJAX, React.js, Node.js, Spring MVC, Flask
Databases:	MySQL, PL/SQL, PostgreSQL
Machine Learning:	OpenCV, pandas, NumPy, Matplotlib, TensorFlow, scikit-learn, PyTorch, Pytesseract