VENKATESHWARAN SUNDAR

• +18573139686 • venks.mail@gmail.com • LinkedIn • GitHub • Portfolio

SUMMARY

I am a seasoned software engineer with 7 years of experience in developing front-end and back-end applications, primarily in the commercial insurance domain. Proficient in Java, SQL, JavaScript, XSL translations and cloud deployments(Azure, GCP), I have successfully led agile teams and delivered impactful and scalable solutions. I recently completed a Master's in AI and, given the growing demand for AI in product development, I am confident that I possess the right skills necessary to develop and deliver shippable AI products.

EDUCATION

Master of Science, Artificial Intelligence 2022-2024
Northeastern University, Boston, MA
Khoury College of Computer Sciences
Relevant coursework: Algorithms, MLOps, Machine Learning, Computer Vision, Advanced perception, Human-Computer Interaction

BE, Electrical and Electronics Engineering 2010-2014
Anna University, Chennai
United Institute of Technology
Relevant coursework: Microprocessors, Object Oriented Programming, Data structures

TECHNICAL SKILLS

Languages: Java, JavaScript, SQL, Python, C++,HTML, CSS, XML & XSLT
Frameworks/Packages: spring, Agencyportal, Web services, PyTorch, Tensorflow, Numpy, Apache Airflow, MLFlow, Docker
Tools/IDE: VSCode, Eclipse, Postman, SonarQube, SubVersion, GitHub
Certifications: SAFe Agile practitioner, Azure fundamentals, Machine learning Specialization, MLOps

PROFESSIONAL EXPERIENCE

Accenture, Pune, India: Application Development Team Lead Feb 2018 – Dec 2021

- Created a suite of applications for Risk Evaluation, Underwriting, Policy Administration, and Claim Handling
- Led a Agile development team to consistently meet or exceed biweekly sprint goals, ensuring timely delivery of project milestones.
- Effectively communicated with stakeholders to align on product vision, facilitating streamlined progress and ensuring project objectives were met.
- Developed a new automated submission system that facilitates direct policy submissions for quotes from external systems, enhancing interaction between vendor and agent systems for improved efficiency and user experience.
- Significantly optimized quote generation process, reducing time required from 15 minutes to just 2 minutes, thereby enhancing efficiency.
- Developed and integrated API services to connect with Duck Creek policy system, address validation services, D&B services, Policy retrieval services, ensuring seamless data exchange throughout policy creation process.
- Automated ACORD XPath generation, streamlining parsing cHTML files and facilitating efficient XPath creation for new fields.

Cognizant Technology Solutions, Hyderabad, India: Product Specialist Aug 2014 – Feb 2018

- Developed comprehensive underwriting applications for account management and risk evaluation, enhancing efficiency and accuracy of underwriting process.
- Implemented robust web services and crafted XML translation stylesheets, ensuring accurate and efficient data transfer and integration.
- Provided production support, efficiently addressing and resolving over 200 tickets, ensuring system reliability and optimal performance.
- Collaborated with various application teams to resolve interfacing issues, primarily identified during production incidents, ensuring system reliability.

OTHER WORK EXPERIENCE

Northeastern University, Boston, MA: Algorithms Teaching Assistant Sep 2022 – May 2024

- Developed programming assignments to test understanding and accuracy of implementation of algorithms for a graduate-level course on Hackerrank
- Conducted office hours, and tutored over 400 students.

Northeastern University, Boston, MA: Research Assistant Sep 2023 – Dec 2023

- Explored performance of log images in Computational color constancy with Prof.Bruce Maxwell
- Compared performance of GoogleNet and MobileNet to analyze accuracy trade-off

Northeastern University, Boston, MA: Building Supervisor Dec 2023 – April 2024

- In charge of fitness facilities at the University, ensuring proper functioning of facilities and managing student employees.

ACADEMIC PROJECTS

MLOps : Retail Stock prediction

- Deployed a model to predict amount of sale of retail stocks, to be better informed of upcoming sales.
- Created a pipeline using Airflow, performed model versioning using ML Flow, deployed and served model on Google cloud platform.

Color Constancy

- Compared performance of models to predict illumination values for linear and log images.
- Used a lightweight pretrained MobileNetV3 model, compared performance with GoogleNet to determine effectiveness of model to be deployed in edge devices.

Generative storyteller

- Built an assistive writing tool using OpenAI's Davinci model. This project demonstrated the use of GPT models to assist with writing tasks and the HCI aspect of using this model.

Augmented Reality

- Applied classical computer vision techniques, computed calibration parameters of the camera, and used OpenCV library to project objects onto a background.

Single player Tic-Tac-Toe

- Built a "unbeatable" single-player rule-based Javascript game, There are some simple rules to this game, when applied makes the program unbeatable.