Krishnakanth Burugu

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EDUCATION

Saint Louis University   Saint Louis, MO
Master's in Computer Science | GPA: 3.9/4.0   *Aug. 2023 – May 2025*

Sreenidhi Institute of Science and Technology   Hyderabad, India
Bachelor's in Information Technology   *Aug. 2018 – June 2022*

EXPERIENCE

Global Graduate Project - Team Lead   Feb 2024 – Apr 2024
Saint Louis University   *Saint Louis, MO*
- Led a 10-member team to develop a university resource platform, improving access to public transport guidance, tuition payments and grocery shopping for 1,000+ international students, reducing related inquiries by 40% while utilizing HTML, CSS, JavaScript, and strong collaboration skills

Data Visualization Associate   Dec 2023 – Feb 2024
Excelerate   *Remote*
- Developed a real-time analytics dashboard in Google Data Studio & Tableau, improving data accessibility by 30% and enabling strategic decision-making
- Processed and cleaned large datasets using ETL techniques, ensuring high data accuracy and delivering actionable insights to stakeholders for better decision-making

Associate Software Engineer   Jan 2023 – June 2023
AlohaABA India   *Hyderabad, India*
- Developed and optimized core modules for a Hospital Management System, including appointment scheduling, insurance claims, and patient records, using C#, ASP.NET, and Bootstrap for an improved user interface
- Resolved 80% of reported system bugs and enhanced UI responsiveness by 25%, while actively participating in code reviews and implementing best practices to improve maintainability
- Integrated SQL Server database operations, leveraging stored procedures, LINQ, and CRUD operations, ensuring seamless backend performance and collaboration across teams

PROJECTS

Warfarin Dosage Prediction Using Machine Learning   Aug 2024 – Dec 2024
- Developed predictive ML models (Logistic Regression, Random Forest, SVM, MLP) to optimize warfarin dosage, enhancing precision and patient safety in clinical settings
- Optimized patient data preprocessing, including handling missing values, encoding categorical variables, and scaling features, to improve model accuracy and reliability through rigorous cross-validation and hyperparameter tuning
- Deployed the best-performing models on Gradio and Hugging Face platforms, enabling clinicians to make real-time, data-driven dosing decisions

BWorks - Material Donor Mutual Assist   Jan 2024 – May 2024
- Created a MERN stack donor engagement system to streamline communication, tracking donations from initiation to end-use and increasing donor participation
- Implemented automated follow-ups via Amazon SES, keeping donors informed and enhancing retention
- Collaborated with stakeholders to define key performance indicators and led the development of a streamlined tracking interface, now actively used by 20+ team members for improved decision-making

Security Surveillance Monitoring System   Mar 2022 – June 2022
- Developed advanced features such as motion detection and face recognition within the software, which facilitated the identification of unauthorized access in less than three seconds during testing scenarios
- Utilized Python, Tkinter, and libraries such as Scipy, Numpy, and OpenCV for efficient image and video processing

TECHNICAL SKILLS

Languages: Python, Java, C#, SQL, JavaScript, HTML/CSS
Frameworks: AngularJS, Flask, Tkinter, ASP.NET, React
Developer Tools: Git, Google Data Studio, Visual Studio, PyCharm, Tableau, VS Code, Docker
Libraries: OpenCV, NumPy, SciPy, Matplotlib, pandas, ETL Pipelines