AKSHAY ANTONY
romeoantony1999@gmail.com | +1 4167317632 | linkedin.com/in/akshayantony

SUMMARY

Results-driven Software Engineer with expertise in .NET technologies, passionate about designing and delivering high-quality, scalable software solutions. Demonstrated success in developing a healthcare application that reduced patient radiation exposure by 15%, showcasing strong problem-solving and analytical skills. Committed to continuous learning and growth, with a keen interest in cloud computing and full-stack development to drive innovation and impact.

EDUCATION

Laurentian University of Sudbury   **Greater Sudbury, Ontario**
Master of Science in Computational Science   *Sep 2023 - Jan 2025*
- Relevant Coursework: Artificial Intelligence, Machine Learning/Deep Learning, High-Performance Computing, Image Processing & Computer Vision, Cloud Computing

Mar Baselios College of Engineering and Technology   **Trivandrum, Kerala**
Bachelor of Technology in Computer Science and Engineering   *Aug 2017 - Mar 2021*
- Key Projects: TruSight: Developed a blind navigation system using YOLO V3, Pytesseract, and Python for object detection and real-time text recognition.
- Image Enhancement: Explored the application of StyleGANs in image processing to enhance image quality.

WORK EXPERIENCE

QuEST Global   **Trivandrum, Kerala**
Software Engineer | Software Engineer Trainee   *Aug 2021 - Aug 2023*
- Developed and maintained 5+ healthcare applications, improving patient satisfaction by 30% and reducing query execution times by 10% through optimized LINQ and SQL queries.
- Implemented multi-threaded and asynchronous solutions, reducing wait times by 70% and enhancing responsiveness.
- Enhanced CT scanning software, decreasing patient radiation exposure by 15%, and collaborated with radiologists and physicists on safety strategies.
- Designed radiation dose reduction algorithms using C#, .NET, WPF, and adhered to medical imaging standards.
- Built intuitive UIs with Material UI, HTML, CSS, and JavaScript.
- Ensured code quality via unit testing (NUnit) and debugging in Visual Studio.
- Collaborated in Agile/Scrum environments, leveraging MS Teams for communication and GitHub for version control.
- Wrote clear documentation to support future development and knowledge sharing.

Outlier AI   **Greater Sudbury, ON**
AI Coder   *Sep 2024 - Present*
- Assessed the factuality and relevance of domain-specific text generated by AI models.
- Crafted and answered physics-related questions to enhance AI model responses.
- Evaluated and ranked domain-specific responses produced by AI systems.

Microsoft   **Remote**
Machine Learning Intern   *Oct 2019 - Nov 2019*
- Applied machine learning algorithms and tools to solve real-world problems

SilverCity Sudbury Cinemas   **Greater Sudbury, ON**
Cast Member   *Feb 2024 - Present*
- Assisted over 300 patrons weekly, ensuring excellent customer satisfaction through proactive problem-solving and teamwork.
- Demonstrated adaptability and collaboration in a fast-paced, dynamic environment.
- Streamlined theatre operations by improving task prioritization, enhancing efficiency during peak hours.

SKILLS

Languages/Libraries	C#, Python(pandas, Scikit-learn, PyTorch, TensorFlow), HTML, CSS, JavaScript, SQL, Nunit
Frameworks/Technologies	NET MAUI, WPF, WinForms, .NET Framework, .NET Core, React, Blazor .NET Framework, Entity Framework, SQL Server, .NET Web APIs, Google Cloud Platform (GCP), AWS, Azure, AzureDevOps (CI/CD Pipelines), Agile/Scrum Methodology, Visual Studio Debugging Tools

PROJECTS

FolderFit   **Laurentian University | Dec 2024**
- FolderFit is a WPF application that will help you with the organization of your files and folders. It allows you to sort files by type or date. It provides an easy-to-use interface to manage your file organization tasks. [GitHub Link]

Road Lane Detection in Autonomous Vehicles   **Laurentian University | Mar 2024**
- Developed a real-time lane detection system for autonomous vehicles using image processing techniques. Implemented edge detection, Hough Transform, and color space manipulation to improve detection accuracy in various lighting conditions. [GitHub Link]

User Activity Recognition   **Laurentian University | Jan 2024**
- Developed a machine learning model to track and recognize user activity (e.g., walking, running, sitting) using smartphone sensor data.

Meeting Scheduler for Managers   **QuEST Global | Jun 2022**
- Created an application to facilitate scheduling meetings between managers and prospective employees. Implemented a user-friendly interface with features like calendar integration, conflict detection, and email notifications.

Tunerly - Music Library Organizer   **QuEST Global | Jan 2022**
- Designed and developed a music library management system that allows users to organize, search, and play music efficiently. Integrated media controls, album artwork, and multi-threading for smooth performance.

TruSight - Blind Navigation System   **Mar Baselios College of Engineering and Technology | Jan 2021**
- Developed a blind navigation system using YOLO V3, Pytesseract, and Python for object detection and real-time text recognition.

Image Enhancement Using StyleGANs   **Mar Baselios College of Engineering and Technology | October 2020**
- Explored the application of StyleGANs in image processing to enhance image quality.

CERTIFICATIONS

Front-End Web Development with .NET Microsoft .Net   **Dec 2024**
- Skills covered: Front-End Development, .NET Framework

Back-End Web Development with .NET Microsoft .Net   **Dec 2024**
- Skills covered: Front-End Web Development, .NET Framework

Artificial Intelligence for Cybersecurity uCertify   **Jul 2024**
- Completed a comprehensive course on AI applications in cybersecurity, focusing on anomaly detection and threat analysis.

Certified Penetration Tester Red Team Hacker Academy   **Jan 2021 – Mar 2021**
- Gained knowledge in ethical hacking, penetration testing methodologies, and network security.

Microsoft Technology Associate (MTA) Introduction to Programming Using Python   **Oct 2019 – Nov 2019**
- Gained foundational knowledge in Python programming, object-oriented concepts, and software development basics.

Certificate of Excellence Workshop on "Project Envision 3D Printing" TATHVA '19, NIT Calicut   **Oct 2019**
- Attended a specialized workshop on advanced 3D printing technologies and their engineering applications.

HONOURS AND AWARDS

Vice-General Captain   **Trivandrum, Kerala**
Christ Nagar Higher Secondary School   *2015-16*
- Assisted the General Captain in leading and organizing school events.

General Captain   **Trivandrum, Kerala**
Christ Nagar Higher Secondary School   *2016-17*
- Led and organized various school events, fostering teamwork and communication.

Captain, Football Team   **Trivandrum, Kerala**
Christ Nagar Higher Secondary School   *June 2016 – March 2017*
- Led a team of 15 players, improving team performance and fostering a positive team spirit.

2nd Place   **Mar Baselios College of Engineering and Technology**
Coding Competition   *2017*
- Demonstrated strong problem-solving and coding skills in a competitive environment.

3rd Place   **Mar Baselios College of Engineering and Technology**
Coding Competition   *2018*
- Exhibited exceptional coding abilities and innovative solutions in a challenging competition.

REFERENCES

Available upon request.