Washington, D.C
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VENGALDAS SRINIVAS

EDUCATION

THE GEORGE WASHINGTON UNIVERSITY, School of Business — **Washington, DC**
Master of Science, Information Systems and Technology *(GPA : 3.68 / 4.0)* — *December 2026*
MAHINDRA UNIVERSITY, School of Engineering — **Hyderabad, India**
Bachelors of Science, Computer Science and Engineering — *August 2020 - June 2024*

TECHNOLOGIES AND LANGUAGES

Languages & Frameworks: Python, Java, TS, Angular, React, HTML, CSS, JavaScript, C/C++, Spring, Android | **Cloud & DevOps:** AWS, Docker, Jenkins | **Databases:** MySQL, PostgreSQL, MongoDB | **Tools:** Git, Jira, REST/GraphQL API, Figma

WORK EXPERIENCE

Deep Learning Research Intern — **National University of Singapore** — *June 2022 - July 2022*
Autix(*Link*) — Singapore

- Engineered a hybrid deep learning framework leveraging Xception (94.2% accuracy) and VGG19 (87.4%) on 2,400+ medical images, decreasing false negatives by 15% compared to baseline CNNs for boosted diagnostic reliability
- Achieved 93.5% precision and 94.0% recall by implementing advanced data augmentation (rotation, flipping) and strategic dropout regularization, revising overall model accuracy by 6.8% while minimizing overfitting risks
- Enhanced training pipeline by automating preprocessing (normalization, label encoding) for 2,000+ samples operating OpenCV scripts, simplifying data preparation time by 40% and training iterations by 20% via early stopping
- Synthesized critical diagnostic methodologies from 12+ technical research papers to architect hybrid solution, translating theoretical medical imaging concepts into a practical, code-based diagnostic tool for clinical utility

PROJECTS

Smart-DMV AI-Powered Verification System (Capstone)| *Software Engineer & Project Lead (Link)*
React, Tailwind CSS, Cloud DB, AI/OCR

- Architect a robust, cloud-native platform scaling to support 2.5 million annual users with 99.9% uptime, leveraging React to deliver a responsive interface with sub-200ms latency for diverse demographics
- Integrate advanced AI-driven OCR models to extract text with 98.5% accuracy across 5+ document types, eliminating manual entry errors and cutting down data verification latency by 90% across entire identity pipeline
- Leading Strategic Initiatives in Process Design for automated workflows and dynamic scheduling, projected to cut administrative processing time by 50% (saving ~15 mins/case) and drive Performance Improvement

ESPN Large-Scale Data Analysis | *Data Engineer (Link)*

- Leveraged R to process and analyze a massive, complex dataset of 1.77 billion interaction records, conducting deep-dive evaluations of 12+ critical system performance metrics and long-term user retention trends
- Designed algorithmic frameworks to identify underlying churn patterns, providing Strategic Planning recommendations that addressed a 43% bounce rate and optimized Product Development strategies retaining 15% more users

Academic Networking Platform (GW-Connect) | *Software Engineer & Project Lead (Link)*

- Delivered a functional MVP in 63.5 days across 5 intensive bi-weekly Agile sprints, achieving a 30% acceleration in development cycles compared to traditional linear waterfall methods for rapid deployment
- Increased user engagement by engineering core networking features that improved student connection speeds by 40% (reducing latency to <200ms), ensuring a seamless, responsive user experience across web platforms
- Projected a $13.2K NPV with a 65.7% ROI through strategic Resource Management, while ensuring zero FERPA violations by leading Security Management and Risk Management protocols to mitigate 14 identified threats

Application for Mahindra University(Link): | *Software Engineer (Link)*

- Engineered a user-friendly admissions application, documenting system architecture and optimizing the User Interface (UI) through detailed Wireframing, increasing application efficiency by 40% and enhancing UX