John Ross

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Education:

University of Texas-Rio Grande Valley, Edinburg, TX   **G.P.A-3.13**
Bachelor of Science in Computer Science   *Aug. 2023 – May. 2025*
Texas Coding Bootcamp- Online Web Development Bootcamp   Jan. 2020 – August. 2020

Relevant Coursework: Data Structures & Algorithms, Computer Architecture, Database Design,

Programming fundamentals, Object-Oriented Programming in Python, Programming in Unix/Linux, Systems Programming, Web Development

Certifications: Google IT Support Professional, Google Data Analytics

Technical Skills:

- **Languages & Databases:** C++, Python, Java, C#, JavaScript, SQL, SQLite, MySQL
- **Web Development & Frameworks:** HTML5, CSS3, React, Node.js, Django, ASP.NET (basic), Next.js; REST APIs, AJAX/Fetch, Web Services, JSON
- **Tools & Additional Skills:** Git, GitHub, Netlify, Vercel, Agile/SDLC methodologies, PyTorch, TensorFlow

Student clubs: IEEE(Institute of Electrical and Electronics Engineers)
- IEEE Xtreme 18.0 Global Programming Competition, Ranked 12th in the United States.

Work Experience:

Freelance Web Developer – Remote | 2023–Present

- Design and develop custom client websites with responsive design, SEO optimization, and modern frameworks.
- Collaborate with clients to gather requirements, create technical specifications, and deliver scalable solutions following SDLC best practices.
- Maintain a professional portfolio site showcasing projects in web apps**,** APIs, and dashboards.
- Deploy and support production-ready applications on Netlify and Vercel, ensuring performance and accessibility.
- Delivered **Viking Poker**: built a custom poker chip e-commerce showcase site with product customization and Stripe-ready checkout (completed project).

(Help Desk Tools & Automation) Senture, LLC – McAllen, TX *August 2023 – January 2024*

- Built internal Python automation scripts for Active Directory user provisioning and password resets, cutting onboarding time by ~50%.
- Developed a C++ desktop tool to help support agents scan local system info and auto-fill help desk tickets.
- Integrated Windows 10/11 environments with antivirus logs via Python to detect and report recurring malware issues.
- Supported 50+ users by resolving system, software, and network issues and documenting all solutions for future reference.

Projects:

AI-Driven Skin Lesion Segmentation – Lead
Tech Stack: Python, PyTorch, MONAI, Weights & Biases, OpenCV, NumPy, SLURM HPC
- Engineered and trained multiple deep learning architectures (U-Net, Transformer-based UNet, and Mamba-based UNet V2) for automated segmentation of skin lesions using the ISIC Archive dataset.
- Optimized segmentation performance using Dice Loss and Dice Metric; implemented learning rate schedulers and deep supervision to boost convergence.