Jennifer Jade Calma

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EDUCATION

Marymount University, May 2025
Major: B.S. Computer Science
Minor: Business Administration
GPA: 3.9 Dean's List

LEADERSHIP

Coded Future Collective
Founder, President

WORK EXPERIENCE

National Institutes of Health (NIH), AI for Health Equity Lab — Arlington, Virginia
College of BILT, Marymount University · September 2024 – Present

- Collaborate with faculty from the Center for Optimal Aging, the Center for the Innovative Workforce, and the School of Technology and Innovation to develop AI-driven solutions in health equity.
- Conduct research focused on AI applications to prevent falls among older adults, contributing to initiatives funded by the AIM-EAD grant.
- Develop and implement code solutions in Python for a pilot application that tests hypotheses related to AI and fall prevention in aging populations.
- Analyze data from wearable technology to support the development of predictive AI models for fall detection and prevention.
- Participate in team meetings to present progress, document findings, and discuss research strategies and application development.
- Maintain research documentation to ensure the project aligns with health equity goals and provides measurable impact.

Acolytes Home Health Care, LLC — Annandale, Virginia
Software Developer, April 2024—Present

- Spearheaded the development of a full-stack patient database application using C#, XAML, and SQL, transitioning the company from a paper-based system to a streamlined digital solution.
- Designed a user-friendly XAML-based interface that empowered staff to efficiently add new patients, update existing information, schedule and manage appointments, and generate comprehensive reports, thereby improving data accessibility and operational efficiency.
- Developed robust back-end logic in C# to handle complex data validation, including the creation, modification, and retrieval of patient records, ensuring data integrity and accurate reporting for patients and staff members.
- Integrated the application with a SQL database to efficiently store and manage patient data, resulting in a 20% reduction in data entry time and 50% decrease in record retrieval time.
- Ensured HIPAA compliance throughout the application's design and development, including secure data storage, access controls, and audit trails.

Marymount University — Arlington, Virginia
Student Technical Consultant, August 2024—December 2024

- Provided technical support to students, faculty, and staff, troubleshooting hardware, software, and network issues, enhancing the university's IT infrastructure.
- Developed automated processes to maintain lab environments by securing and reimaging PCs, improving efficiency by reducing manual intervention by 30%.
- Engineered a virtualized environment using Windows 11 Pro virtual machines for secure and reliable network access across diverse systems.
- Led the creation of a knowledge base, reducing support ticket volume by 20% and improving response time for common technical issues.
- Streamlined authentication processes by resolving SSO errors, enhancing user experience and ensuring continuous access to learning resources.
- Optimized system performance for the Canvas learning management system, ensuring consistent uptime for students and faculty.
- Improved classroom technology by troubleshooting and resolving projector and AV issues, resulting in uninterrupted presentations and learning sessions.

PROJECTS & EXTRACURRICULAR

MU Capstone Project
Tello Drone Autonomous Flight System, April—May 2024

- Developed a Python-based application to control the Tello drone for autonomous flight, utilizing the Tello SDK and OpenCV for advanced computer vision capabilities.
- Implemented real-time object detection and tracking using TensorFlow and OpenCV, enabling the drone to autonomously recognize and follow moving objects.
- Enhanced image processing systems to identify and classify terrain, integrating a machine learning model for dynamic environmental awareness and data collection from the drone's camera feed.

TECHNICAL SKILLS

- **Languages**: Java, JavaScript, TypeScript, Python, C#, C, C++, Dart, HTML, CSS, R
- **Frameworks & Libraries:** React.js, React Native, Node.js, Flutter, .NET Core, ASP.NET, TensorFlow, OpenCV, Flask, Bootstrap
- **Database Technologies:** SQL Server, MySQL, SQLite, MongoDB
- **Cloud & DevOps:** Heroku, Vercel, Netlify, Docker, Git, GitHub
- **Software Development Tools:** Visual Studio, Visual Studio Code, Figma, Postman, Jira, Trello
- **Machine Learning & AI:** TensorFlow, OpenCV, Keras

INTERESTS

- **Artificial Intelligence (AI) & Deep Learning**: *enthusiastic about advancing AI technology through innovative projects and continuous learning.*
- **Problem Solving & Systems Optimization:** *enjoy working on challenging algorithmic problems (e.g., LeetCode, HackerRank).*
- **Recreational Interests:** *tennis, badminton, hiking, ultimate frisbee, reading, cooking*