

Clarissa B Vega

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PERSONAL STATEMENT

Analytical Computer Science graduate with proven experience in systematic testing, AI model development, and data validation. Demonstrated expertise in designing comprehensive test scenarios, evaluating system performance, and identifying edge cases through professional QA work. Strong foundation in Python programming, machine learning frameworks, and business domain analysis. Passionate about leveraging analytical thinking and technical skills to build robust AI evaluation pipelines and ensure model accuracy in real-world applications.

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Southern Luzon Technological College Foundation Inc.,

2022-2025

Best in Thesis Award : Pystronaut

ACCOUNTANCY, BUSINESS AND MANAGEMENT

Mariners Polytechnic College Foundation

2018-2020

PROFESSIONAL EXPERIENCE

Quality Assurance Analyst

October 2024 - December 2024

Camalig, Albay

JMH IT SOLUTIONS

- Developed Cypress GUI-based automated test scripts to validate UI components and key user interactions
- Designed and executed end-to-end test scenarios to validate website functionality and performance
- Conducted edge case testing to identify flaws in application logic and enhance system reliability
- Collaborated with developers to document processes and analyze test results
- Created validation datasets and defined ground truth standards for consistent testing outcomes

Wordpress Developer

Reliance Philippines

Legazpi, Albay

August 2024 - January 2025

- Integrated advanced security features such as CAPTCHA for enhanced user verification
- Created technical documentation and maintained clear communication with cross-functional teams
- Performed accurate data input and content management for e-commerce site built on WordPress
- Ensured product listings were complete and up-to-date for optimal user experience

TECHNICAL SKILLS AND COMPETENCIES

Programming Languages:

- **Python** - Advanced proficiency in AI model development and data processing
- **JavaScript/TypeScript** - Frontend development with React framework
- **C#** - Game development in Unity environment
- **SQL** - Database design and querying with PostgreSQL and Supabase
- **HTML/CSS** - Responsive web design and user interface development

Artificial Intelligence & Machine Learning:

- TensorFlow and PyTorch frameworks (continuous learning and development)
- OpenAI API integration for conversational AI and chatbot development
- AI model training and fine-tuning using structured .jsonl datasets
- Natural language processing and machine learning model evaluation
- Data validation and ground truth establishment for AI systems

Database & Backend Technologies:

- PostgreSQL - Relational database design and management
- Supabase - Backend authentication and real-time data handling with Row Level Security (RLS) policies
- SQL query optimization and database performance tuning
- Data structure design and implementation

Development Tools & Platforms:

- Git and GitHub - Version control and collaborative development
- n8n - Workflow automation and integration platform
- Unity - 2D/3D game development environment
- Cypress - Automated testing and quality assurance
- VirtualBox - Virtual environment setup and testing
- AWS Amplify Gen 2 - Full-stack cloud application development

Web Technologies & UI/UX:

- React - Component-based frontend development
- Tailwind CSS - Utility-first CSS framework
- WordPress - Content management and e-commerce solutions
- Responsive design principles and mobile-first development
- User interface design and user experience optimization

PROJECT PORTFOLIO

Financial Sentiment Analysis AI

April 17, 2025 - April 23, 2025

- Developed a sophisticated financial sentiment classifier using Hugging Face Transformers framework
- Implemented FinBERT (ProsusAI/finbert) model for specialized financial text analysis
- Created classification system for investment-related text into positive, negative, and neutral sentiment categories
- Designed clean, modular Python implementation optimized for real-world API integration
- Achieved high accuracy in financial sentiment prediction for investment decision support systems

Web Scraping & Data Management System

April 24, 2025 - May 15, 2025

- Built comprehensive web scraper using Scrapy framework to extract structured book data including titles, prices, ratings, and metadata
- Implemented efficient data storage solutions using MongoDB for optimal querying and analysis capabilities
- Developed clean data pipelines with advanced selectors for scalable and maintainable scraping workflows
- Created automated data validation and cleaning processes to ensure data quality and consistency

AI-Powered Chatbot with Calendar Integration

July 2024 - Present

- Developed intelligent automated chatbot using n8n workflow automation platform
- Integrated Google Calendar API for seamless scheduling, booking management, and appointment coordination
- Trained and fine-tuned AI models using OpenAI APIs with carefully structured .jsonl datasets
- Built responsive interactive frontend components and intuitive chat user interfaces using React and TypeScript
- Implemented natural language processing capabilities for enhanced user interaction and conversation flow

Personal Portfolio Website (React.js)

January 2025 - Present

- Developed professional single-page portfolio application using React, React Router, and modern JavaScript frameworks
- Integrated EmailJS for seamless contact form functionality and client communication
- Implemented OpenAI API integration for interactive AI-powered features and demonstrations
- Designed responsive, mobile-first user interface with accessibility considerations

Unity Game Development with Coding Simulation

June 2024 - April 2025

- Built 2D game environment in Unity using C# to simulate in-game coding terminals
- Designed interactive gameplay mechanics and user interface components
- Integrated Alteruna networking framework to enable real-time multiplayer features
- Developed logic for hosting/joining sessions, syncing movement and objects, and supporting co-op gameplay
- Conducted online testing to ensure smooth and consistent multiplayer interactions

CERTIFICATIONS

Foundations of Cybersecurity

Coursera

Comprehensive certification covering core cybersecurity principles, threat assessment, risk management, and security framework implementation for enterprise environments.

Play It Safe: Manage Security Risks

Coursera

Advanced cybersecurity training focusing on practical risk management strategies, incident response procedures, and security policy development using industry-standard frameworks.

Node Key NFT Workshop

Blockchain and Wallet Integration

Specialized training in blockchain technology, NFT development, cryptocurrency wallet integration, and decentralized application (DApp) development within the Node Key ecosystem.

AWARDS AND ACADEMIC RECOGNITION

- **Leadership Award** - Recognition for outstanding leadership capabilities and team collaboration in academic and professional environments
- **Best in Thesis** - Academic excellence award for exceptional performance in capstone research project
- **Service Awardee** - Recognized for community service as Business Manager of the Supreme Student Council.
- **Proficiency in Game Development** - Technical excellence recognition in game design, development, and interactive media creation
- **Proficiency in Network and Communication** - Advanced recognition for networking technologies and professional communication skills

CORE COMPETENCIES AND SPECIALIZATIONS

Technical Expertise:

- Artificial Intelligence and Machine Learning Implementation
- Natural Language Processing and Sentiment Analysis
- Web Scraping and Data Pipeline Development
- Full-Stack Web Development and API Integration
- Database Design and Performance Optimization
- Automated Testing and Quality Assurance Methodologies
- Game Development and Interactive Media Design
- Cloud Computing and DevOps Implementation

Professional Skills:

- Cross-Functional Team Leadership and Collaboration
- Technical Documentation and Communication
- Project Management and Agile Development Methodologies
- Problem-Solving and Analytical Thinking
- Continuous Learning and Technology Adaptation
- Client Relations and Stakeholder Management

RESEARCH INTERESTS AND SPECIALIZATION AREAS

Current Focus Areas

- Financial Technology (FinTech) and Algorithmic Trading Applications
- Natural Language Processing for Financial Sentiment Analysis
- Automated Web Scraping and Data Mining Technologies
- Conversational AI and Chatbot Development
- Game-Based Learning and Educational Technology
- Cloud-Native Application Architecture and Microservices

Future Research Directions

- Machine Learning Applications in Financial Markets
- Advanced Web Scraping and Data Extraction Methodologies
- Human-Computer Interaction in Educational Gaming
- Blockchain Technology and Decentralized Applications
- Cybersecurity in AI and Machine Learning Systems

LANGUAGES

- **English** - Professional Working Proficiency (Fluent)
- **Filipino/Tagalog** - Native Speaker

REFERENCE

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PRESIDENT AND CEO

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