**Krist Veseli**

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**EDUCATION**

**Michigan State University East Lansing, MI**

*B.S.**Computer Science*

* **Relevant Courses:** Introduction to Python, Introduction to C++, Data Structures and Algorithms, Computer Organization and Architecture, Database Systems, Object-oriented Software Design, Introduction to AI

**PROFESSIONAL EXPERIENCE**

**United Wholesale Mortgage Pontiac, MI**

*Software Developer Intern May 2025 – August 2025*

* Migrated legacy CRON jobs into C# Azure Functions using timer triggers, improving reliability and eliminating manual scheduler maintenance and improving reliability by 70%
* Optimized user‑segmentation process by crafting complex SQL queries to filter users against specific business criteria, boosting efficiency by 85%
* Automated new-user provisioning by authoring SQL scripts to grant database permissions, accelerating onboarding and reducing manual updates by 60%
* Maintained and updated outdated project dependencies and libraries, resolving compatibility issues and reducing security vulnerabilities across multiple app modules
* Developed unit and behavior tests with MSTest, NUnit, and Moq, using CodeRush to improve test coverage by up to 90% on features deployed to production
* Ensured code coverage by writing tests that hit actual repository code, validating data access and business logic layers.

**PROJECTS**

**Stock Price Prediction Tool |** *Python*

* Designed and implemented an LSTM-based neural network in PyTorch to forecast stock prices using historical market data.
* Collected and preprocessed data via Yahoo Finance API, applying feature scaling and time-series sequence generation for
* model input.
* Trained and optimized the model on GPU with the Adam optimizer, achieving a test RMSE of 1.5 – 1.9 on large-cap stocks.
* Visualized predictions and error analysis with Matplotlib, delivering actionable insights through clear performance plots.

**Car Infotainment-System |** *Python*

* Developed a Python-based car infotainment system using PyQt5, featuring a real-time speedometer, fuel gauge, and an embedded YouTube player for media playback***.***
* Integrated custom UI components and utilized QWebEngineView for video/audio streaming.
* Implemented dynamic fuel consumption based on vehicle speed, enhancing realism in user interactions.

**Social Network Friend Recommendation System |** *Python*

* Developed a recommendation system for a social network platform, allowing users to discover and connect with potential friends based on common connections and interests.
* Implemented an efficient algorithm to identify the user with the highest number of common friends, excluding the user themselves, thus optimizing the friend suggestion process.

**Combined Affine and Caesar Cipher Encryption Project |** *Python*

* Designed and implemented a novel cryptographic technique that combines Affine Cipher and Caesar Cipher for encrypting and decrypting sentences, ensuring the privacy and security of sensitive information.
* Demonstrated proficiency in cryptography, algorithm design, and user interface development, contributing to the creation of a unique and practical security tool.

**Battleship Replica |** *Python*

* Developed a Battleship replica game using Python, showcasing strong programming skills and proficiency in object-oriented programming (OOP) principles.
* Demonstrated problem-solving abilities by implementing game logic for ship placement, player turns, and win conditions, enhancing the overall user experience.

**TECHNICAL SKILLS & CERTIFICATIONS**



**Certifications:** Microsoft Excel, Microsoft Word

**Languages:** Python, C++, C#, SQL, NoSQL

**Tools:** Microsoft Azure, React, Git

**Other:** Agile/Scrum, Debugging, Mutation Testing, Unit Testing, VS Code, Jira