

# Roman Vasilyev

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## EDUCATION

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**University of Davis** | Davis, California

**Bachelor of Statistical Computation, Minor in Computer Science**

May 2026

**Degrees:** A.S in Mathematics, A.S in Science & Mathematics

**Relevant Coursework:** Data Structures, Algorithms and Analysis, Differential Equations, Linear Algebra, Discrete Structures for Computer Science

## RELEVANT EXPERIENCE

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**California Air Resources Board** | Sacramento, CA

September 2023 -Present

*Information Technology Specialist*

- Utilized advanced Excel formulas to produce monthly data reports, resulting in a cost reduction of **15%**.
- Designed a government **infrastructure website** using HTML and Drupal, improving accessibility compliance by **15%**.
- Developed a flowchart-based data integration in **Power BI**, reducing info retrieval by **30%**.

**Infis.ai** | Davis, CA

January 2025 - Present

*Python Software Engineer Intern*

- Developed a full **Python-based NLP** pipeline using **Pandas**, **NLTK**, and **Regex** to extract and transform natural language content into quantitative features for ML model training.
- Designed and implemented a **MongoDB-based data storage system** managing over **10,000 supplier records**, improving query efficiency and reducing data retrieval time by **60%**.
- Optimized a risk assessment algorithm by integrating geopolitical, crime, and government data, improving predictive accuracy using **Python**, **Pandas**, and **scikit-learn**.

**GIGChampion** | Davis,CA

January 2025 - Present

*IT/Data Engineer*

- Designed and maintained **Python-based ETL pipelines** using **Pandas** to automate ingestion, cleaning, and transformation of structured data from third-party **RESTful APIs**, reducing manual processing time by over **40%**.
- Built data syncing workflows and KPI's using **Power BI** and **Matplotlib**, supporting real-time decision-making.

## TECHNICAL PROJECTS

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**Secure Data Encryptor (Python/Pandas/Scikit)** | Personal Project

January 2024 – August 2024

- Built a **Python-based** data protection tool utilizing **AES encryption** to secure passwords and **full CSV datasets**.
- Implemented batch **encryption** processing over **10,000 records/minute**, and ensuring data confidentiality.

**AI Brute Force Password Hacker (Python/Tensorflow/Keras Api)** | Personal Project

December 2024- Feb 2025

- Designed and trained an **LSTM-based neural network** to analyze common password patterns and simulate **brute-force attack** methodologies, aimed at evaluating system password strength.
- Engineered** a data preprocessing pipeline to structure large-scale leaked password datasets for **ethical security testing** and **machine learning** model training.

**SQL Injection Detection & Logging Predictor (Python/Pandas/SQLite)** | Personal Project

January 2025- March 2025

- Created an AI-driven Flask dashboard utilizing **TensorFlow LSTM** to detect SQL injection attacks with **95% accuracy**.
- Used **Pandas** for data preprocessing, cleaning, and transformation to prepare datasets for **TensorFlow** model training.

## SKILLS & CERTIFICATIONS

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- **Programming Languages:** C++, Python, HTML,

- **Tools and Technologies:** MongoDB, Azure Ai, Excel, Word, Power BI, TensorFlow, API's, Pandas, SciKit, Flask

- **Certifications:** Google Cybersecurity Certificate, Microsoft Azure AI, Fundamentals of Cybersecurity