

# JOHN MORKOVCI

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## Professional Experience

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Aztec Insurance Services | Moreno Valley, CA

Feb 2024 - Aug 2024

*Pro Bono Software Engineer*

- Made & deployed **Python** automation scripts, reducing manual effort in claims processing by 40%
- Conducted optimization of **SQL databases**, reducing average query execution time from 3 seconds to under 1 second, drastically improving data retrieval efficiency
- Enhanced payment processing efficiency by integrating **Square's third-party APIs**

## Projects

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*Image Classification for Animal Breeds*

- Trained an image classification model using **PyTorch** to identify different animal breeds with an accuracy of 71%
- Built and fine-tuned a convolutional neural network using **ResNet architecture**
- Compiled a **Flask web** application to handle predictions. Utilized **CUDA** to boost training times by 5x

*Summoner Bot*

- Created a **Python**-based Discord bot directly supplying player statistics to over 50 servers
- Developed **backend** logic to handle commands interacting with six different Riot **API endpoints**

## Leadership/Campus Involvement

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CSUF Esports | Fullerton, CA

Aug 2020 - Dec 2023

*Team Manager*

- **Managed** a roster of five esports players and maintained consistent communication with other collegiate esports team representatives to coordinate practice, games, and meetings
- Incorporated **Excel** to calculate player statistics and schedules, improving team performance by 30%

Association for Computing Machinery at CSUF | Fullerton, CA

Dec 2023 - Oct 2024

*AI Member*

- Organized monthly **AI**-focused meetings, introducing students to core topics through interactive workshops and collaborative demos
- **Collaborated** with board members to discuss upcoming plans, develop new ideas, and improvements to presentations

## Technical Skills

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Programming Languages: Python, JavaScript, C++, C, SQL, HTML, CSS, PHP

Frameworks: Django, Flask, React, PyTorch, Scikit-learn, AWS, Git, MySQL, Node.js

## Education

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California State University Fullerton

Dec 2025

*Bachelor of Science, Computer Science*

- Relevant coursework: OOP, Data Structures, Software Engineering, Database Systems, Algorithm Engineering, Operating System Concepts, Cybersecurity,