

# IVAN ORLOVIC

## CONTACT



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## RELEVANT COURSES

- Computer Architecture
- Data Communication and Computer Networks
- Data Structures and Algorithms
- Database Management
- Generative Artificial Intelligence
- Mathematical Modeling
- Natural Language Processing
- Operating Systems
- Programming Languages
- Statistical Machine Learning
- Time Series Analysis

## TECHNICAL SKILLS

- Bloomberg Market Concepts
- C/C++/C#
- GitHub
- HTML & CSS
- Java
- LINUX
- Machine Learning
- MATLAB & Math Modeling
- Numpy, Pandas, PyTorch
- Object Oriented Programming
- Python
- R
- Solidity
- SQL & NoSQL

## EDUCATION

### Chapman University

- MS in Computational and Data Sciences, emphasis in analytics and applied mathematics | Jan 2024 - Dec 2024
- BS in Computer Science, Minor in Neuroscience | Aug 2019 - Jan 2024

## PROJECTS

### Mateo's Painting Website Design and Development

- Designed and developed a full-scale website for a Bay Area business, leveraging HTML, CSS, and API management to create a user-friendly experience.

### User Interface Project - Universidad Carlos III de Madrid

- Collaborated with international peers in Madrid to develop a music application, utilizing HTML and CSS for design and functionality.

### Neuroscience Student Research Project

- Led a neuroscience research project evaluating the effectiveness of 3D-printed learning tools compared to traditional lecture-based methods.

### Machine Learning Humor Detection and Joke Generation

- Leveraged NLP techniques to evaluate humor in "Family Guy", fine-tuned a transformer model, and generated audience specific jokes.

## EXPERIENCE

### Undergraduate Computational Research Associate

Chapman University | Orange, CA | May 2020 - May 2022

- Created script to automate simulations, analyzed the impact of bird flight on wing morphology, and presented findings at a university conference.
- Developed Java code and Matlab model for a circulatory heart system, presented at SICB conference and university symposiums.
- Employed GitHub's command line interface for streamlined simulation batch management and parameter updating, boosting team collaboration efficiency.

## LEADERSHIP AND ACTIVITIES

### Chapman Student Scholar Ambassador

- Provided peer mentorship and promoted scholarship and involvement opportunities at the Chapman Center for Undergraduate Excellence.

### Chapman Delta Tau Delta Fraternity - Delta Queen Treasurer

- Served as Treasurer of Delta Queen and helped raise a record-breaking \$28,000 for Juvenile Diabetes Research (JDRF).