

# Ethan Ernesto Lopez

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## EDUCATION

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Chapman University, Orange, CA  
**Bachelor of Science in Data Science**  
**Minor in Business Administration**

Expected Graduation May 2026  
3.91 GPA

### Relevant Coursework:

- Database Management
- Applied Business Analytics
- Artificial Intelligence
- Data Structures & Algorithms
- Statistical Models in Business Analytics
- Business Statistics
- Machine Learning
- Microeconomics

## TECHNICAL SKILLS

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Computer Languages – R | Python | SQL | C | C# | C++ | UNIX | LINUX | Java | JavaScript | Arduino IDE | Swift | HTML/CSS Technologies & Packages – Docker | Tableau | GitHub | MS Excel, Word, Office | SciKit-Learn | Alteryx Cloud | Matplotlib

## PROFESSIONAL EXPERIENCE

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**Research Assistant – Social Network Analysis (MR-QAP) | Chapman University** March 2026 – Present

- Analyze relational network data in 240 first-year STEM students using Python metrics (MRQAP, centrality, density).
- Design reproducible workflows to address quality, refining over 7 data visuals in research reporting and manuscripts.
- Examine observations in Excel dashboards, validating 3+ procedures with significance tests to authenticate results.

**Academic Tutor (Student Tutor) | Chapman University** September 2024 – Present

- Tutor various STEM courses with a focus on statistics, data analysis, financial modeling, and computational methods.
- Explain analytical concepts to 5+ students per quarter using Excel (regression), Python (NumPy, pandas), and R.

**Senior Leadership Instructor | UTO Taekwondo – Cypress, CA** March 2018 – Present

- Supervise 15+ youth per shift in self-defense, manage entry-level team members, and oversee studio operations.
- Provide office support by preparing display areas, organizing equipment, and handling customer inquiries via phone.

**Student Data Entry & Admin Assistant – Office of Accreditation | Chapman University** June 2025 – August 2025

- Supported operations by formatting documents, managing databases, and overseeing more than 50 student records.
- Conducted research on 70+ graduates and program enrollment trends through search engines and social media.
- Produced data summaries in Excel, modifying Qualtrics survey tables to increase stakeholder understanding by 25%.

**Teaching Assistant – Summer Engineering Academy (Arduino Cars) | Chapman University** June 2025 – July 2025

- Supervised and assisted with Arduino-based robotics construction, wiring, troubleshooting, and programming.
- Executed soldering, monitored 20+ workshop materials, and applied Office tools for document accessibility.
- Offered technical support to over 40 students in circuit design, robot components, and code deployment processes.

## RELEVANT PROJECTS & EXPERIENCE

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**Statistical Models Capstone – Business Operations Analyst** November 2025 – December 2025

- Collaborated with 2 others to integrate Jupyter/Colab machine learning with 9 million online booking records.
- Implemented data cleaning to extract trends and apply clustering analysis for 6 customer segmentations.
- Trained 5+ regression and classification models, designing Matplotlib visuals to present to a non-technical audience.

**Blockchain Node Constructor – Main Interface Programmer** April 2025 – May 2025

- Developed a standardized C++ mechanism for lightweight database management systems and node memory tracking.
- Enabled object-level analysis, 5+ file inputs/outputs, and real-time data ingestion for efficient querying and retrieval.

**ProGach Screen Time Control App – Documentations Manager/Assistant Developer** January 2024 – May 2025

- Handled team file procedures and communicated with 3+ specialists to support app customization and research.
- Developed 2 user interface components in materials synchronization and applied significance testing using Excel.

## ACADEMIC AWARDS AND LEADERSHIP

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**Provost's List** 2023, 2024, 2025  
**Presidential Scholarship Award** August 2022 – May 2026  
**California State Seal of Biliteracy (Korean)** May 2022