

Nathan Monette

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EDUCATION

University of California, Irvine (3.6 GPA)

Irvine, CA

Candidate for B.S. in Computer Science, Mathematics Minor

June 2025

- Specialization in Intelligent Systems
- Auxiliary coursework in advanced linear algebra, graduate-level coursework in probabilistic learning and algorithmic game theory

WORK EXPERIENCE

University of California, Irvine

Irvine, CA

Undergraduate Researcher

April 2023-Current

- Created experimental research tools for algorithmic game theory and multi-agent reinforcement learning under professor Ioannis Panageas
- Presented reviews of current literature to other researchers and attended research meetings to further self-educate in a graduate-level topic

LifeStyle (Social Media/E-Commerce Startup)

Orange County, CA

Full-Stack Developer

April 2023-September 2023

- Collaborated with business founders to transform an idea into a prototype application
- Designed a React Native frontend to deploy UI/UX design
- Applied MySQL, FastAPI, and SQLAlchemy to create a backend database, and optimized queries through indexing for future growth

PROJECTS

ZotScheduler (2nd Place at Hack at UCI)

Irvine, CA

Developer

February 2023

- Cooperated with 2 teammates to construct a working app in less than 36 hours
- Incorporated a React.js/Chakra UI frontend with a Python backend that was used for web scraping, data modification, and ML modeling
- Utilized ensemble tree regression models (XGBoost), and search algorithms to recommend schedules to students based on a list of potential classes, with professor-rating-regressions having an accuracy of 70%

FIFADraft

Irvine, CA

Lead Developer

May 2023-June 2023

- Implemented a React.js web app that assists in professional-sports-styled "drafts" for custom-teams FIFA (video game) competitions
- Employed the Firebase realtime database system and to create lobbies, allowing for up to 100 users to connect to the web app and draft together synchronously

SKILLS & INTERESTS

Skills: TensorFlow, JAX, PyTorch, scikit-learn, Python, C++, React/React Native, SQL

Interests: I am interested in artificial intelligence and machine learning, as well as various aspects of Full-Stack development. Additionally, I am a lifelong water polo player with leadership experience in athletics.