

Elamaran Elangovan

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Education

- **University of California, Irvine** — B.S. in Computer Science & Mathematics (Incoming), Expected Fall 2026
- **Amador Valley High School** — Pleasanton, CA (2024 – 2026)
- **NPS International School** — Singapore (2019 – 2024)

Experience

Student Researcher & Machine Learning Engineer — SquareShift

Jun 2025 – Present | Pleasanton, CA

- Developed machine learning solutions using Python for research-driven projects
- Built and optimized data processing workflows for AI applications
- Collaborated in hybrid research and engineering environments
- Applied quantitative and analytical methods to real-world datasets

Co-Founder & Head of Technology — Marine Exploration Club

Jan 2023 – Aug 2024 | Singapore

- Co-founded a student-led marine exploration and conservation initiative
- Led development of marine species tracking and data visualization tools using Python
- Built machine learning-based systems for environmental data analysis
- Managed technical strategy and digital outreach initiatives

Projects

FederalReserveMania

- Built a real-time macroeconomic simulator using React and Python
- Implemented Taylor Rule simulations and Monte Carlo quantitative models
- Developed AI-generated economic news systems and interactive dashboards

NBA Trade Engine (NBA_trade_sim)

- Developed an NBA analytics simulation engine using Python, Pandas, and NumPy
- Applied RSI, MACD, and Bollinger Bands to sports analytics
- Built an AI-powered trade evaluator generating scouting reports and trade grades

MacroSim

- Created an interactive macroeconomics learning platform using JavaScript, React, HTML, and CSS
- Designed custom decision-based algorithms simulating macroeconomic policy outcomes
- Focused on AI integration and adaptive educational experiences

Awards & Honors

- Distinction — Harvard AI Program (2025)
- Cambridge IGCSE Global Distinction Award (2024)
- 2nd Place — Global BizTech Challenge
- Model United Nations Participant — NPS International Singapore

Skills

- Python, JavaScript, React, HTML, CSS
- Pandas, NumPy, Machine Learning
- Data Visualization, Quantitative Modeling
- Git, Statistical Analysis, Financial Modeling
- Leadership, Research, Entrepreneurship