Alexander Le

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Education

University of California, Berkeley — **Expected Graduation: May 2027**
Bachelors of Arts, Double Major in Economics & Statistics — Berkeley, CA

- **Activities & Societies:** Computer Science Undergraduate Association (Officer), Space Enterprises at Berkeley, CALICO Informatics Competition (Problem Writer), Berkeley Math Tournament, Chess Club

Experience

California Volunteers, Office of the Governor — **October 2023 - April 2025**
Digital Infrastructure Intern — *Sacramento, CA*

- Engineered an automated data cleaning and extraction utility using Python and Selenium to process volunteer participation data across state forms, processing up to 50,000+ records monthly in Golden Volunteer.
- Reduced manual data processing time by 75% through python, saving approximately 120 hours per quarter in labor costs at fully burdened rates

Intel Corporation — **June 2022 - September 2022**
Data Science Intern — *Folsom, CA*

- Developed and deployed predictive models using SARIMAX and XGBoost to forecast product demand with an improvement of 15% over baseline.
- Created interactive dashboards and visualizations using Matplotlib and Seaborn to communicate model insights to stakeholders, facilitating data-driven decision-making across supply chain teams
- Conducted A/B testing and hyperparameter tuning to optimize model performance, documenting methodologies for future implementation

Department of Defense — **May 2024**
CyberSentinel Challenge — *Remote*

- Competed in DoD-sponsored cybersecurity competition hosted by Correlation One, solving complex challenges in cryptography, steganography, network security, and digital forensics.
- Applied advanced problem-solving techniques to decrypt encoded messages and identify security vulnerabilities within time-constrained scenarios

National Aeronautics and Space Administration — **May 2021 - September 2022**
NASA Community College Aerospace Scholar — *Remote*

- Conducted student research on Ionic Liquid Sorbents with a team of NASA scientists and chemical engineers at Armstrong Flight Research Center; advised by NASA CFO Frank M. Ramos.

Projects

- **Automated Web Scraping & Data Cleaning** — *Python, Selenium, Cron* — **November 2024**
  - Automated data cleaning and form testing using Python and Selenium.
  - Implemented error handling and scheduling with `cron` for weekly data updates.
- **Predictive Model for Consumer Demand Trends** — *Python, Statistics* — **September 2022**
  - Built a forecasting solution leveraging SARIMAX and XGBoost for time series modeling of aggregated sales, inventory, and demand data.

Skills and Interests

Languages: Python, C++, Java, OCaml, TypeScript (TSX), and JavaScript
Design and Videography: Figma, Canva Studio, iMovie, Procreate, Blender
Libraries: NumPy, Pandas, TensorFlow, Selenium
Tools: Bloomberg Terminal, Jupyter Notebook, Tableau, Microsoft Excel
Interests: Agentic AI, Quantitative Finance, Competitive Programming, Chess, Rubiks Cubing, Cooking