Joe Bruin

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Education

University of California, Los Angeles — Los Angeles, CA
Bachelor of Science in Statistics and Data Science, Minor in Data Science Engineering — *Sep 2026 – Jun 2030*

- **Cumulative GPA**: 4.00/4.00 | **SAT / ACT**: 1600 | 36
- **Coursework:** Introductory Probability, R Programming, Linear Regression Analysis...
- **Honors**: Dean's Honors List, Alpha Lambda Delta Honors Society, UCLA DataFest...

Bruin High School — Irvine, CA
General Education Diploma — *Aug 2022 – May 2026*

- **Cumulative GPA**: 4.00/4.00
- **Coursework:** AP Statistics, AP Calculus BC, Linear Algebra...
- **Honors**: National Honor Society, AP Scholar with Distinction...

Experience

Undergraduate Research Assistant — Sep 2026 – Present
UCLA Department of Mathematics — *Los Angeles, CA*

- Studied high-dimensional regression methods for variable selection and prediction under correlated features
- Implemented Ridge, and LASSO regression models in Python, and evaluated performance through cross-validation
- Conducted Monte Carlo simulations to compare estimator bias, variance, and prediction error
- Summarized theoretical and computational findings through technical reports and presentations to faculty and students

Football Research Analyst — Oct 2025 – Present
Bruin Sports Analytics — *Los Angeles, CA*

- Analyzed 5+ seasons of NFL play-by-play data to identify factors influencing fourth-down conversion probability
- Built logistic regression and Random Forest models in Python using game state, field position, and defensive personnel features
- Evaluated model performance using cross-validation and ROC-AUC, comparing predictions against traditional fourth-down decision models
- Presented findings and data visualizations to 30+ club members, translating statistical results into actionable football insights

Involvements (Extracurriculars)

Co-Founder — Aug 2024 – May 2026
Bruin Robotics Club — *Irvine, CA*

- Co-founded a 30+ member robotics club focused on mechanical design, electronics, and autonomous programming
- Designed and programmed competition robots using Arduino, sensors, and motor-control systems
- Led weekly workshops on CAD, circuit design, and programming for students with varying technical experience
- Organized teams for regional robotics competitions, coordinating prototyping, testing, and iterative design

Projects

Gitlytics | *Python, Flask, React, PostgreSQL, Docker* — Jun 2025 – Aug 2025

- Developed a full-stack web application using with Flask serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Celery and Redis for asynchronous tasks

Technical Skills & Interests

Languages: Java, R, Python, SQL (Postgres), JavaScript, HTML/CSS
Frameworks & Libraries: pandas, NumPy, Matplotlib, React, Node.js, Flask, FastAPI
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm...
Interests: Formula 1, LA Sports: Lakers, Rams, Dodgers, Piano, Hiking...