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PROJECTS & EXPERIENCE

Calorie Prediction Model Using Multiple Linear Regression (R)   **Nov. 2025**

20,000-observation dataset | http://abmarz.github.io/predical/
- Built a multivariable regression model predicting daily calorie balance from biometric and activity variables.
- Performed feature screening, stepwise selection, robust modeling (Huber/Bisquare), and multicollinearity diagnostics.
- Produced R^2 + ANOVA/Q-Q analyses, visualizations, and interpretations for a full statistical research paper.

LMU Business Incubator (Spring 2026 Cohort, In Progress)   **Jan. 2026 – May. 2026**
- Selected for LMU's Business Incubator program focused on early-stage venture development.
- Applying technical problem-solving to MVP development, product feasibility, and user-centered design.
- Integrating business modeling, market research, and mentor feedback into ongoing product iteration

Boum Programming Language: Compiler Project   **Jan. 2025 – May. 2025**

Built with one collaborator
- Created a custom programming language with an Ohm-JS grammar, full parser, AST builder, semantic analyzer, and optimizer.
- Implemented symbol tables, static type checking, control-flow validation, and structured error reporting.
- Developed IR transformations and optimization passes to improve runtime and reduce redundant operations.

Soteria: Women's Campus Safety Startup   **Jan. 2025 - Present**
- Co-founded and developed an MVP mobile application dedicated to improving women's safety on college campuses.
- Designed four core product features: a campus community forum, a walking buddy coordination system, self-defense training content, and an interactive crime map.
- Leading end-to-end product development, including ideation, feature design, and MVP implementation.

Blu: Digital Animation Non-Profit Venture   **May. 2020 – Nov. 2020**

Founder | COVID-era initiative
- Founded a digital animation service supporting small businesses during the pandemic.
- Produced animated promotional content and collaborated with a charity to donate 100% of revenue.
- Oversaw client relations, design processes, and fundraising workflows.

LMU BEST Bootcamp: 1st Place Winner   **Jan. 2025**
- Business, Engineering, Science, and Technology Bootcamp. Designed and pitched a full business concept under a 48-hour deadline, placing first among all participating teams.

EDUCATION

Loyola Marymount University   **May, 2026**

B.S. in Computer Science • Minor in Statistics & Data Science   *Los Angeles, CA*
- **GPA: 3.37/4.0** • Dean's List multiple semesters
- Relevant Coursework: Regression, Probability, Statistical Computing (R), Algorithms, Software Engineering, Interaction Design.

SKILLS & INTERESTS
- **Languages:** Python, R, JavaScript, Java, C, Swift, SQL
- **Frameworks/Tools:** Firebase, SwiftUI, React, Pandas, Vercel, Ohm-JS
- **Data Science:** Regression, ANOVA, Robust Models, Visualization
- **Other Skills:** UI/UX, API Integration, Git
- **Interests:** Weightlifting, Squash, Skiing, Running, UI/UX Design, Music Production, Video games, Cars