

# Shreyansh Sharma

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## SUMMARY

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Computer Science junior at CSULB with full-stack and applied ML experience building production web applications, REST APIs, and data-driven tools. Strong in Python, C/C++, JavaScript, SQL, React, and FastAPI, with experience across 6+ programming languages and 3 software/ML projects. Hands-on background maintaining a live e-commerce website, automating data workflows, and shipping analytics-focused features for real users.

## EDUCATION

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**California State University, Long Beach** | B.S. in Computer Science **Expected May 2027 | GPA: 3.5**  
**Relevant Coursework:** Data Structures, Algorithms, Database Systems, Systems Programming, Computer Architecture & Organization, Discrete Structures I/II

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, JavaScript, SQL, HTML/CSS, Go

**Frameworks/Backend:** React, FastAPI, Express, Flask, REST APIs, SQLAlchemy, Node.js

**Data/Cloud/Tools:** PostgreSQL, MySQL, MongoDB, AWS, Docker, Git/GitHub, Vercel, Cloudflare Workers, Stripe, Clerk

**ML/Data:** TensorFlow.js, TensorFlow/Keras, scikit-learn, NumPy, Pandas, Chart.js

## EXPERIENCE

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### Lead Developer | Aura Lifestyle

**Current**

- Led development of a live e-commerce website for an apparel brand using React, Node.js, MongoDB, REST APIs, and Stripe, shipping 5 core storefront flows: catalog browsing, cart, wishlist, coupon, and checkout.
- Continue maintaining the production website at [theauralifestyle.org](https://theauralifestyle.org), handling product and content updates, debugging issues, coordinating deployments, and improving storefront reliability and user experience.
- Integrated payment and backend services to automate online order processing and reduce manual invoicing while managing Git-based deployment workflows across multiple cloud-hosted services.

### Freelance Data Analyst | Contract-Based

**May 2025 - Present**

- Clean and structure client datasets using SQL, PostgreSQL, and MongoDB, then build reports and spreadsheets that support operational decision-making.
- Work directly with stakeholders to clarify requirements, validate outputs, and deliver reliable data updates on deadline for recurring client requests.

## PROJECTS

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### AI Sports & Fitness Motion Analysis MVP | [TensorFlow.js](#), [MoveNet](#), [React/Vite](#), [FastAPI](#), [PostgreSQL](#), [Docker](#) | [GitHub](#)

- Built an end-to-end motion analysis platform using TensorFlow.js MoveNet and FastAPI to analyze live camera and uploaded videos from 17-point pose keypoint sequences.
- Developed biomechanical scoring pipelines that computed joint angles, technique metrics, and activity-specific scores for 2 movements - squats and cricket cover drives - then generated structured coaching feedback, visual overlays, and timeline analytics.
- Added authenticated session-history workflows with Clerk, PostgreSQL/Neon, and Docker-based local deployment to support repeatable demos and future athlete dashboards.

### Cervical Cell Classification | [Python](#), [TensorFlow/Keras](#) | [GitHub](#)

- Trained CNN and transfer-learning models on roughly 4,000 SIPaKMeD Pap-smear cell images across 5 classes using TensorFlow/Keras.
- Evaluated architectures with accuracy, F1-score, and confusion matrices and built reproducible augmentation pipelines to reduce overfitting on limited medical image data.

### Flashloan Arbitrage Bot | [Solidity](#), [Python](#), [DeFi Automation](#) | [Gist](#)

- Designed a multi-module arbitrage workflow with route discovery, execution, and pair-management components for EVM-based DeFi opportunities.
- Built Python scanning scripts to evaluate thousands of token-pair combinations across multiple DEXs and surface candidate routes for profitable trades.

## LEADERSHIP / INVOLVEMENT

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- Chess Club - Treasurer and Event Organizer: secured 5 ASI grants (3 recurring) and coordinated about 10 events, growing active membership by about 40%.
- SASE and Tabletop Club - Member: participate in STEM outreach, study sessions, and community-building events with other students.