

# Mihir Srivastava

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## EDUCATION

**University of California, Santa Barbara (UCSB), CA** | *B.S. in Computer Engineering* Expected 2027

- Data Structures & Algorithms, Object Oriented Design, Deep Learning, Machine Learning, Synchronous Digital Systems, Signal Processing, Finite Automata

## EXPERIENCE

**Incoming Software Engineering Intern** | Cisco | *Boxborough, MA* Jun '25 - Sept '25

**Software Engineering Intern** | Go Spillbox | *Remote* July '24 - Oct '24

- Engineered a high-performance *predictive file caching* system with *distributed network* architecture, processing 100K+ log files with 95%+ accuracy.
- Optimized low-latency data retrieval across globally distributed cloud servers, collaborating with an international team to implement robust error handling.

**Software Engineering Intern** | Python, Jenkins, Google Cloud March '22 - Oct '22

[OpenROAD Project](#) | *University of California, San Diego*

- Improved DevOps efficiency by modernizing the Jenkins pipeline-interface - added features such as version tracking & performance comparison, optimized workflow & redesigned user interface for test case monitoring & development.

**Logistics Director** Oct '23 - Present

*SBHacks* | *Santa Barbara, CA*

- Organized UCSB's largest hackathon with 300+ attendees with workshops from Anthropic, Google, GitHub, raising \$30k+

## RESEARCH & PROJECTS

**Decompiling Parallel Patterns** | *Python, Boolean Logic, Debugging, Verilog, PyRTL* Sept '24 – Jun '25

*Early Research Scholars Program (ERSP)* | *Santa Barbara, CA*

- Research techniques for decompiling *Boolean logic to high-level software abstractions* under [Prof. Jonathan Balkind](#).
- Optimize de-compilation processes by utilizing Python and debugging tools for ongoing research in novel *hardware de-compilation* methods; targeting formal presentation of findings in June 2025.

[AIHelp](#) | *Python, GroqCloud* Aug '24 – Sept '24

- Engineered a CLI tool to interpret and execute natural language commands using *GroqCloud* API, achieving 95% accuracy in command-to-bash translation.
- Built comprehensive command validation and error handling to ensure robust & secure execution across diverse environments.

**FacEmotion** | *PyTorch, OpenCV, Gemini, Streamlit* | *Data Science SB* | *Santa Barbara, CA* Jan '24 – May '24

- Won 1<sup>st</sup> place among 53 teams for developing a computer vision model to detect emotions of people & analyze ways to improve mood utilizing *CNN* trained on 35K+ images with 87% accuracy.
- Utilized *Gemini 1.5 Pro* to implement recommender system to thoroughly analyze frame & suggest ways to improve users' mood

**Utility Unraveled** | *React Native, Tailwind, MongoDB* | *Santa Barbara, CA* Jan '24 – May '24

- Won best UI/UX award among 10 teams for developing mobile app that UCSB students & employees could use to monitor & report problems with utilities around campus like laundry machines, toilets, bathrooms, etc.
- Developed detailed navigation app, precisely mapping individual facilities and amenities using *Apple Maps API*

**Wine Quality Classifier** | *Scikit-learn, Pandas, Jupyter Notebook* | *Data Science SB* | *Santa Barbara, CA* Jan '24 – Feb '24

- Developed classifier model using *Random Forest, Ridge Classifier, SVM, MLP, & XGBoost* to predict red/white wine quality
- Refined model to predict quality with 84% accuracy from 11 physiochemical wine properties, placing top 5 in UCSB Datathon

[Moore's Law: Its Impact Past, Present & Future](#) | *Polygence Symposium finalist* May '22 - Sept '22

- Examined Moore's Law's impact on technology since 1965, quantified its ongoing relevance, & projected its future applicability, with a focus on heterogeneous architectures & 3D stacking technologies.
- Collaborated with a Ph.D. candidate from Northeastern University to contextualize Moore's Law's impact on ML development.

## TECHNICAL SKILLS

**Languages:** Python (6 years), Java (3 years), C/C++ (3 years), Rust (1 year), React Native (2 year), Go (1 year), SystemVerilog (1 year)

**Frameworks:** Scikit-learn, Pandas, Numpy, Jupyter Notebook, llama.cpp, ollama

**Tools/Platforms:** LM Studio, VS Code, Cursor, Git, Github, Eclipse, Bash, Android, Arduino, Raspberry Pi, iOS, LTSpice, Quartus II

**CLUB MEMBERSHIP:** IEEE, ACM, Data Science SB, Google Developer Software Challenge, SB Hacks