Srinandha Murugesan

srinandhamurugesan@gmail.com ❖ (747)-230-1131 ❖ Oak Park, CA ❖ linkedin.com/in/srinandham

EDUCATION

University of California, Santa Barbara **June 2028**
Bachelor of Science, Computer Science *Goleta, CA*

- **GPA: 3.88/4.0**; Dean's Honors
- Clubs: ACM, Data Science, Google Developer Student, Indus
- Coursework: Intermediate Python, Problem Solving w/ Computer I, Machine Learning and Statistical Mechanics, Linear Algebra, Vector Calculus, Differential Equations

EXPERIENCE

Software Engineer **April 2025 - Present**
UCSB ACM *Goleta, CA*

- Project lead for PwC financial insights platform featuring transaction analysis, trend summarization/visualization, forecasting, and anomaly detection

Undergraduate Research Engineer **April 2025 - Present**
UCSB Vision Research Lab *Goleta, CA*

- Working with the Smithsonian to build and deploy image-stitching software to open source Bisque software

CERTIFICATIONS, SKILLS, & INTERESTS

- **Certifications:** Google Cybersecurity Professional (Nov. 2024), CompTIA Security+ (in progress)
- **Skills:** Python, Machine Learning, Data Science, Front-End (HTML, CSS, JS), Back-End (Flask), Microsoft Office
- **Interests**: Cybersecurity, Machine Learning, Statistics, Web Development

PROJECTS

Personal Website (srinandha-murugesan.github.io/website/) **Present**

- Uses HTML, CSS, and JS

Predicting Commit/PR Impact on GitHub Repos **Feb. 2025 - Present**

- Working on a machine learning model to predict the impact of commits/PRs on repositories by analyzing messages using NLP
- Developing a full-stack application with Flask backend and HTML, CSS, JS frontend to display the model
- Utilizes Python, GitHub GraphQL API, NLTK, TF-IDF, BERT, sklearn, XGBoost, and evaluation metrics (precision, recall, F1 score)

Independent Research **Sept. 2024 - Jan. 2025**

- Analyzed and predicted trends within Billboard Top 50 weekly charts for 2022 with an 85% accuracy for predicting song rise/fall based on chart entrance/exit
- Collaborated with UPenn professor on a coding project and research paper
- Utilized Python (sklearn, Pandas, os, math), Excel, feature engineering, random forest, four-way classification models, and statistical testing metrics (OLS, Chi-Square, MAE, AIC, F-statistic)

UCLA Computer Science Summer Institute **June 2024 - Aug. 2024**

- Worked on a collaborative project to predict strokes based on health attributes and placed 3rd at competition
- Studied data science, programming, and machine learning
- Utilized Python (sklearn), median imputation, logistic regression, KNN, SVM, decision trees/random forest, and neural networks