

# TANYA SREENAGESH

COMPUTER SCIENCE UNDERGRADUATE SPECIALIZING IN INTELLIGENT SYSTEMS (ML/AI)

(949) 310-2952 | [tanyasreenagesh@gmail.com](mailto:tanyasreenagesh@gmail.com) | Irvine, CA | [linkedin.com/in/tanyasreenagesh](https://www.linkedin.com/in/tanyasreenagesh) | [github.com/tanyasreenagesh](https://github.com/tanyasreenagesh)

## EDUCATION

**COMPUTER SCIENCE (B.S.)**  
University of California, Irvine  
2019 – Current  
**Expected Graduation:** Dec 2021  
**GPA:** 3.83/4.00 | Dean's Honor List

**COMPUTER SCIENCE, PHYSICS & MATHEMATICS (A.S.)**  
Irvine Valley College  
2016 - 2019

## SKILLS

### Programming Languages

**Proficient:** C++, Python, SQL

**Intermediate:** Go, HTML/CSS, JavaScript

### Software Tools

Git, Docker, Kubernetes, Metasploit, InfluxDB, Grafana, Logstash, AWS with EC2 and S3

### Machine Learning Tools

TensorFlow, Keras, Matlab/Octave, Jupyter Notebooks, Scikit-learn

## ORGANIZATIONS

**Women in Computer Science & Informatics (WiCS)**  
Executive Committee Member

## AWARDS

**Hacking for Humanity 2019**  
**Third Place**  
San Diego Girls in Tech

## RELEVANT COURSES

- Machine Learning/Data Mining
- Data Structures & Algorithms
- Programming in C/C++
- Computer Discrete Mathematics
- Probability/Statistics in CS
- Linear Algebra
- Principles in System Design
- Human Computer Interaction
- Software testing, Analysis and Quality Assurance

## PROFESSIONAL EXPERIENCE

### Software Engineer Intern

**Sysdig**

San Francisco, CA | August 2020 - Present

- Built a data processing pipeline to collect system calls from the Linux kernel and process sections of the output stream to be used as features.
- Strengthened application security by developing a model based on time-series forecasting and LSTM neural networks to successfully identify malicious behavior.
- Improved the existing Sysdig Secure UI with visualization tools to monitor container security and a feature to alert users of suspicious system calls.

### EDI Analyst

**Nirlax Americas, Inc.**

Irvine, CA | June 2019 – June 2020

- Expedited inbound and outbound transaction processes of trading partners by creating EDIFACT and X12 maps in XML format, suggesting upgrades where necessary.
- Engineered custom EDI systems for client companies from diverse backgrounds by researching their specific business needs and communicating with them directly.
- Accelerated processing of tracking information, allowing clients to manage shipping and receiving products effortlessly.

### Math & Science Home Tutor

Maharashtra, India | June 2013 – July 2016

- Tutored 25 students ranging from 7th to 10th grade in subjects such as Algebra, Calculus and Physics, with over 50% of students showing substantial increase in grades.
- Introduced a new approach to students studying STEM courses, focusing on the topic's fundamentals and practical applications, helping students look forward to learning new things.

## SOFTWARE PROJECTS

### Login Authentication Service

**C++**

- Developed a service that uses hashing to keep track of username/password combinations efficiently and verify valid login attempts.
- Incorporated debug mode, allowing business administrators to manage existing accounts.

### Kaggle In-Class Competition

**Python 3**

- Implemented an ensemble model based on neural networks, random forests and logistic regression to predict rainfall patterns from data provided by the UCI Center for Hydrometeorology.
- Outperformed peers and ranked in the top 10% of the class with an accuracy rate of 88.7% on unseen data.

### Text Editor

**C++**

- Built a text editor from scratch that takes keyboard commands from the user to insert and delete characters, move the cursor in all directions, and undo and redo previous commands.
- The editor looks and acts similar to Vim, making it easy for users to navigate the workspace.

### Quiz Generator

**Go**

- Developed a command line program that transforms a file with questions to a timed quiz.
- Maximized simplicity of use, allowing both the file containing questions and the timer to be customized by the user at runtime.