

Senior M. Slug

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EDUCATION

University of California Santa Cruz, Santa Cruz, CA September 2021 – May 2024
Bachelor of Science (B.S.) in Computer Science, Minor in Applied Mathematics

GPA: 3.7/4.0, **Dean's List:** 6 Quarters

Relevant Coursework: Applied Machine Learning: Deep Learning, Machine Learning: Data Analysis and Empirical Methods, Data Structures and Algorithms, Principles of Computer Systems Designs

EXPERIENCE

AIEA Lab at University of California, Santa Cruz, Santa Cruz, CA September 2024 – Present
AIEA Auditor

- Conduct testing and optimization of autonomous vehicle paths using Python, Nautilus and AV simulators, ensuring safe and efficient navigation while identifying and analyzing potential errors and failures in driving algorithms
- Collaborate with cross-functional teams to enhance AI explainability by documenting error detection processes and providing actionable insights, contributing to the development of more reliable autonomous systems

RipViz at University of California, Santa Cruz, Santa Cruz, CA January 2024 – June 2024
Machine Learning Research Intern

- Proficiently identifying and labeling critical visual elements in photos using AnyLabeling, such as riptide patterns and current color nuances to enhance machine learning models with essential visual cues for effective riptide detection
- Utilize advanced drone technology to capture high-resolution images of coastal areas, optimizing the dataset with aerial perspectives to augment the model's capability in recognizing subtle visual cues crucial for riptide prediction

PROJECTS

DermaScan | Python, TensorFlow, Flask, Bootstrap, HTML, CSS, VS Code

- Developed an innovative Flask application that utilizes real-time facial scanning to identify various types of acne, providing tailored resources and actionable tips for effective treatment using Python, TensorFlow, and Keras for model training and dataset analysis
- Designed an intuitive user interface with HTML and CSS, enhancing user experience by delivering personalized skincare recommendations based on live feed analysis through a chat bot feedback format

BananaFit | Python, React Native, Firebase, HTML, Javascript, CSS, VS Code

- Orchestrated the development of a user-friendly website using HTML, JavaScript, and CSS, seamlessly integrating React and Firebase to store live feed data in the cloud resulting in a streamlined and efficient gym management system with enhanced capabilities
- Pioneered the development of a Python API featuring camera integration to enable real-time gym occupancy tracking, elevating user experience and feedback mechanisms

SKILLS

- **Computer Languages:** Python, C/C++, Java, MySQL, JavaScript, PHP, HTML/CSS, Swift
- **Libraries:** Async I/O, NumPy, Matplotlib, Pandas
- **Frameworks:** React, Node.js, Poetry, WordPress