Dylan Maung

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Education

University of California Santa Cruz   Sep 2022 - Dec 2024
Bachelor of Science in Computer Engineering, GPA: 3.50   *Santa Cruz, California*
- **Relevant Coursework:** Data Structures and Algorithms, Software Design Accelerated, Intro to Software Engineering, Applied ML: Deep Learning, Full Stack Web Development, Principles of Computer System Design, Parallel Programming, Embedded System Design, Computer Architecture, Probability & Statistics for Engineers

City College of San Francisco   Aug 2020 - Jul 2022
                                                                            San Francisco, California

Skills

Languages: Python, C, C++, JavaScript, Java, Assembly, Verilog
Frameworks & Tools: Bash, Docker, Express.js, Git, GSAP, Jupyter Notebook, Material-UI, MATLAB, MongoDB, Node.js, NumPy, Pandas, PostgreSQL, PyTorch, React.js, scikit-learn, Tailwind CSS, Three.js
Embedded Systems: ESP32-C3, Raspberry Pi, Soldering, Unix/Linux Systems
Spoken Languages: English, Burmese

Experience

SMount HealthTech   Nov 2024 – Present
Software Engineer Intern   *San Jose, California*
- Developed front end for core administrative functionality of a patient-centric healthcare management mobile app, improving operational efficiency for healthcare administrators overseeing patient care
- Designed and integrated an intuitive user interface, enhancing workflow efficiency for healthcare administrators
- Integrating front end with backend services to support a responsive and scalable user experience

Rimini Street   Sep 2024 – Dec 2024
Data Scientist Intern   *Santa Cruz, California*
- Quarter-long industry project with Rimini Street through the UCSC Senior Capstone Course
- Enhanced predictive performance of existing sales opportunity model (Columbo 1.0) by optimizing text vectorization and engineering additional features
- Improved predictive precision by 12% and recall by 10% for Won outcomes, while significantly boosting precision by 48% and recall by 52% for Loss outcomes, resulting in an overall accuracy improvement of 18%.

University of California Santa Cruz   Jan 2024 – Mar 2024
Reader   *Santa Cruz, California*
- Graded and provided feedback on labs, pre-labs, and homework assignments for the CSE 100 Logic Design Course
- Communicated with peer graders and professor to distribute work and set deadlines

Elite Educational Institute   Dec 2019 – Sep 2021
Administrative Assistant   *San Francisco, California*
- Prepared test prep materials and curriculum for both student and instructors
- Organized and coordinated office calendar and schedule with instructors, director, and other office associates
- Stepped up to independently manage office on management's behalf when needed, including handling billing and proctoring tests

Projects

Bingeflix | *Express.js, HTML, JavaScript, MongoDB, Node.js, React, Tailwind CSS*
- Developed responsive front-end UI, including landing page, navigation bar, and other core components
- Implemented backend logic for API interactions and data transfer; utilized database to store user watch lists and sports teams in BSON format

Wildfire Prediction Model | *Pandas, PyTorch, Python*
- Developed and trained a Convolutional Neural Network (CNN) from scratch to predict wildfires using satellite imagery, achieving 95% accuracy and 92% recall on the test set
- Fine-Tuned industry standard pre-trained models such as ResNet-50 and bench-marked their performance with our custom CNN model, which demonstrated similar performance