Radhakrishna Vempati

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Education

University of California, Irvine 4.0 GPA

B.S. in Computer Science *September 2022 – Expected June 2025*

- **Selected Courses:** Machine Learning and Data-Mining, Intermediate Programming in Python, Introduction to Data Management, Linear Algebra, Programming in C/C++, Discrete Math
- **Dean's Honors List**

Experience

Software Engineering Intern June 2022 – August 2022

GhangorCloud *San Jose, CA*

- Contributed to the Licensing Design Requirements and Specification Documentations for GhangorCloud, specifically for its flagship product ISE (Information Security Enforcer)
- Contributed to the design and development of a business admin login portal, distinct from the customer interface, with a primary emphasis on executing front-end UI tasks
- Assisted in automation of relaying potential client information to admin accounts that will be used for making business marketing decisions

Projects

ML Diabetes Readmission Predictor | *Python, Git* February 2023 – June 2023

- Preprocessed the Diabetes 130-US Hospitals dataset by employing encoding techniques, such as OneHotEncoding, Feature Hashing, and Ordinal Encoding
- Implemented advanced machine learning models, including Random Forests, FeedForward Neural Networks, and Logistic Regression to preprocessed dataset
- Experimented on ML model hyperparameters, evaluating accuracies and optimizing learning rates to achieve accurate predictions of patient readmission probabilities

IoT Device - Project Farmoid | *AWS, C++, postgresql, Git* December 2021 – June 2022

- Designed a robust and effective prototype after experimenting various protptype designs for our Iot device
- Developed code to enable network connectivity between the IoT device and mobile phone application, exploring various technologies including AWS IoT Core
- Achieved recognition as Uber Global Hackathon finalists and secured 1st place in STEMist Hackathon for our IoT device prototype and design

Network Automation Scripts | *Java, Python, R* May 2021, June 2022

- Constructed network automation scripts through Python and Java for a global enterprise to assist with migration
- Efficiently generated network schemas and IP subnets, saving approximately 3 hours of manual effort per schema
- Automated network device configurations by taking in commands for various IP networks and writing configuration code as applicable to each IP subnet/space

Unhealthy Air Quality | *Python* September 2022 - October 2022

- Developed code using PurpleAir's API to detect unhealthy AQI exceeding user-defined thresholds at any location within the country
- Utilized Nominatim API to retrieve accurate coordinates within a specified radius for identifying and displaying locations with unhealthy air quality
- Integrated both above APIs together, generating comprehensive outputs based on user inputs such as coord location, radius, number of locations to display, and AQI threshold, providing specific air quality output report

Technical Skills

Languages: Java, Python, C, C++, SQL, Swift, JavaScript, HTML
Developer Tools: Github, VS Code, PyCharm, Eclipse, AWS Console, Docker
Libraries/Frameworks: Pandas, NumPy, Matplotlib, OpenCV, TensorFlow, Git