Svadrut Kukunooru

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EDUCATION

University of Wisconsin − Madison   Madison, WI
Bachelor of Science in Computer Science, Minor in Data Science   *2021 – 2024*
- **Relevant Coursework**: Machine Organization, Data Modeling, Linear Algebra, Discrete Math, Artificial Intelligence, Algorithms, Operating Systems, Software Engineering, Databases

EXPERIENCE

SkyWater Technology Foundry   May 2023 - August 2023
Software Engineering Intern   *Bloomington, MN*
- Redesigned semiconductor wafer viability testing algorithms in C/C++ including a wafer parser and a die test site selector, leading to a 4% increase in global testing efficiency
- Designed multiple selection algorithms to uniformly select different parts of the die based on radius and number of sites required
- Gained knowledge of fab processes like lithography, etching, and wafer testing
- Learned to use OCAPs to track project progress and improve manufacturing processes

The Headstarter   June 2022 - September 2022
Fellow   *Queens, NY*
- Developed projects from design to deployment using MVC design patterns, such as a resume parser and a job board for recruiters
- Coached by engineers on CI/CD, Git, Agile, and microservice patterns

Sammamish Coding Club   Sep. 2018 - February 2019
Tutor   *Sammamish, WA*
- Educated over 50 students in data structures up to graphs and trees and guided them in a month-long final project where teams of students engineered a Reddit clone using Javai
- Assessed and troubleshot computer problems brought by students, such as hardware issues and software bugs

PROJECTS

WiseWager | *Python, PyTorch, R, Flask, HTML, CSS, JavaScript*   February 2024
- Leveraged deep learning techniques to implement a multilevel neural network model using Python and PyTorch
- Integrated LSTM, RBF, and linear perceptron layers to optimize predictive accuracy
- Built the data scraping pipeline using R and Python, efficiently collecting soccer data from websites such as FBRef and Transfermarkt
- Engineered the frontend of the WiseWager platform using Flask, HTML, CSS, and JavaScript, ensuring a user-friendly and intuitive interface for accessing predictive probabilities
- Conducted extensive testing and validation of the WiseWager platform, ensuring robustness and reliability in generating predictive probabilities for over/under bets on player statistics in soccer matches

StoreIt | *Python, Flask, HTML/CSS/JS, SQL*   November 2022
- Led a team to develop a full-stack web application with a Python back-end that allowed users to sort through a list of storage spaces and message owners of spaces that interested them; additionally included a Sign-Up/Login database accessed through SQLAlchemy
- Split tasks among the 4 other members of my team and ensured that developers achieved their respective tasks to a satisfactory degree; created the pitch deck for the project
- Placed 4th in the CheeseHacks 2022 hackathon out of over 200 students and scored highest points for presentation

SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, HTML/CSS, SQL, R, Bash
Developer Tools: AWS, Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Linux
Other Interests: Cello (12 years), Carnatic Cello (3 years), Badminton, Skiing, Cooking, Fencing