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

Wayfair June 2024 - August 2024

Software Engineering Intern *Boston, MA*

- Out of 20 teams, won the Intern Innovation Project by kickstarting the development of 'Waybor', a generative AI-assisted tool designed to create instruction tutorials based on manufacturers' CAD models for furniture assembly and aid customers in constructing their products.
- Collaborated with Google engineers to design and implement RESTful APIs using Spring Boot and Java for integrating new product rules into Wayfair's platform.
- Developed backend services to support product compliance rules, ensuring suppliers adhere to safety and quality standards.
- Assisted in creating UI components for the product rule management system, enhancing user experience and efficiency.

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

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

Badgerpedia | *Python, HTML, CSS, JavaScript* March 2023

- Developed a web application that provides comprehensive information about all courses at the University of Wisconsin – Madison
- Integrated real-time enrollment information from the UW-Madison API, course details from the official university site, and grade distribution data from a Kaggle dataset
- Designed and implemented a user-friendly interface to ensure easy navigation and information accessibility
- Handled the full development lifecycle, from planning and design to deployment and maintenance

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