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

Amazon Web Services — Madison, WI
AWS Developer Associate – DVA-C02 — *July 2024*

- Demonstrated proficiency in core AWS services, application lifecycle management, and optimizing AWS-based applications for performance and security.

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.
- Designed and implemented RESTful APIs using Spring Boot and Java, including class diagrams and endpoint development, to integrate new product compliance rules into Wayfair's platform.
- Developed and tested backend services ensuring supplier adherence to safety and quality standards, enhancing product compliance and regulatory workflows.
- Enhanced user experience by creating UI components and a state management system for the product rule management system, facilitating seamless interaction for manufacturers and the Legal Technology team.

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

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