

# Vivak Haryani

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## Education

### University of Wisconsin – Madison

*Bachelor of Science in Computer Science*

Madison, WI

Sept 2021 – Dec 2024

- GPA: 3.21/4.0
- Honors: College of Letters & Science Dean's List

## Experience

### Deerhold

*Software Development Intern*

June 2022 – Aug 2022

Hoffman Estates, IL (Remote)

- Created a personal website utilizing JavaScript and React library
- Programmed a To-Do application to form a dynamic list based on user input
- Communicated weekly with senior leadership to coordinate company goals with personal progress

### Jackson Hewitt Tax Service

*Technical Support and Administrative Assistant*

May 2018 – Present

Hoffman Estates, IL (Seasonal)

- Support daily office operations and client experience to contribute to a 4.9 Google rating and 34%+ new-client growth during the most recent tax season
- Coordinate client scheduling and manage the office calendar to keep operations running efficiently, while providing professional, high-quality phone support to address client questions and concerns
- Organize and maintain confidential client files in a way that is secure but accessible for tax preparers
- Install and configure new software by mapping drives to ensure network connectivity
- Troubleshoot and resolve technical issues to maintain seamless operations

## Projects

### 3D Soccer Match | *Three.js, HTML, CSS*

Research Project

- Designed a 3D model of a soccer match utilizing Three.js library
- Incorporated various 3D modeling techniques i.e. Rendering, shadows, materials, textures

### Calendar-UI | *Figma, Microsoft tools, JS, HTML, CSS*

HCI Design Project

- Designed Calendar-UI, an interactive Calendar prototype that incorporates a Calendar-Notepad design to satisfy user needs
- Demonstrates the design process from gathering and analyzing user data to creating a working prototype

### Data Science Pipeline | *NumPy, PyTorch, Pandas, SQL*

Self-Guided Project

- Developing an AI-guided, modular learning project with progressive exercises leading toward a full end-to-end data science pipeline
- Practicing core concepts including data manipulation, visualization, machine learning, and neural network modeling

## Technical Skills

**Languages:** Python, Java, JavaScript, SQL, HTML/CSS, C

**Frameworks / Libraries:** React.js, Node.js, NumPy, Pandas, PyTorch, Three.js

**Tools / Platforms:** Git, Docker, Linux, Windows, macOS, Google Cloud Platform (GCP), Jupyter Notebook, Figma, Drive Mapping (Network Shares)

## Coursework

**Artificial Intelligence:** Knowledge representation (predicate logic), probabilistic reasoning, and machine learning fundamentals

**Software Security:** Vulnerability identification/mitigation, secure coding concepts, exposure to static/dynamic analysis tools

**Algorithms:** Algorithm design and complexity analysis, dynamic programming, reductions, NP-completeness/intractability

**Big Data Systems:** Distributed data processing concepts; hands-on exposure to Docker, HDFS, Spark, Cassandra, Kafka

**Machine Organization:** C and assembly fundamentals, caching, heap/stack memory behavior and performance basics