MRUGANK PEDNEKAR

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Education

University of Wisconsin-Madison May 2025

Bachelor of Science in Computer Engineering, Math, Data Science, Computer Science, Minor in Entrepreneurship
GPA: 3.9/4.0, Dean's List: 5/5 Semesters

- Courses: Intro to Machine learning and Statistical Pattern Recognition, Intro to Artificial Intelligence (AI, Deep Learning), Algorithms Analysis, R Programming, Computer Architecture, Signals Computation in MATLAB, Linear Algebra, Electronic Circuits, Data Structures, VLSI Hardware Design 1, Databases and SQL (DBMS), Circuit Analysis, Probability Theory, Big Data (Spark, Kafka, GPU), Agile Development
- Certificate in Project Management @ SuccessWorks UW-Madison
- Activities: Software Developer @Cardinal Trading, Project Lead @SoftwareClubUW, Events Lead @TranscendUW

Experience

Capstone Product Manager/Software Developer @ Schneider, Madison, WI February 2024-Present

- Leading a development team of 4 undergraduates to develop a Fitbit for truck drivers. Using Jira to manage workflow, weekly scrum sprints, and crafting user stories. Prototyping UI/UX in figma & react and conducting initial tests with truck drivers. Presenting bi-weekly demos to stakeholders and Schneider representatives.
  Skills: Agile, Product Design, Jira, Scrum, Kanban, Figma, Market Research, User Feedback, User Testing

Product Marketing Manager @ Leysi.com, Madison, WI September 2022–March 2023

- PMP driving a seed stage fintech startup to market. Increasing downloads by 150% and onboarding the first 150+ users. Hiring social media managers, feedback loops with outsourced engineering teams, and making data-driven decisions.
  Skills: Product Management Design, Marketing, Google Analytics, Hiring, Product-Market Fit, Slack, Feedback Loops

Firmware Engineer @ Wisconsin Racing-FSAE September 2021–May 2022

- Debugging and converting 1000+ lines of C code to Python for previous Battery Management System versions in CCS for the TI Tiva Module on the electric Formula car. Using design and enterprise software such as Cadence, ModelSim, CAD.
  Skills: C/C++, Python, Github, CCS, Embedded, Circuit Analysis, Verilog, Slack, FPGA, PID

Undergraduate Teaching Assistant (Machine Org. & Prog.) @ UW-Madison ECE Department August 2023–February 2024

- Holding Office Hours and teaching students about x86 computer architecture, C/C++ programming and assembly language. Guiding students on coding challenges involving cache, memory allocation, scheduler calls, and signal handling.
  Skills: C/C++, Bash, Assembly, Computer Architecture, Linux, Problem Solving, Interpersonal Skills

Physics & Math Undergraduate Tutor @ UW-Madison August 2023–Present

- Mentoring diverse groups of at most 8 undergraduate students in general physics, particularly focusing on non-engineering majors. Facilitating interactive learning sessions, adapting teaching techniques to cater to individual learning styles. Developing public speaking and communication skills in a classroom setting.

Projects

MadData Hackathon 2nd Place @DotData UW-Madison February 2024

- Leading a team of 4 to develop on our idea of creating an AI journaling tool that helps people track personal growth using emotion as a metric. Using CNNs to analyze audio and text to predict levels across emotions over a period. Using Python and libraries like pydub to transcribe text and using classification ML models. Ranked 2/120 people.

Unravelling UFO Sightings: Applications of ML to Study Patterns & Predict Features July 2023

- Leading a cross-functional team to analyze global UFO sightings using ML techniques (K-NN, decision trees, logistic regression, SVM). Extracting intricate patterns in locations, timings, shapes, and durations. Maximum accuracy is attained by Decision Tree model at 0.82.
  Skills: Python, ML, Matplotlib, Scikit-Learn, Project Management, Pandas, NumPy, Data Analysis, Jupyter, Sci-kit